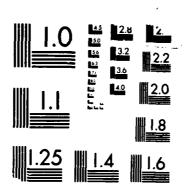
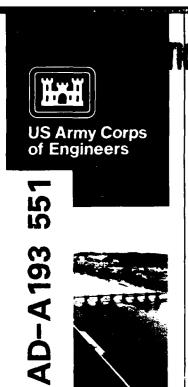
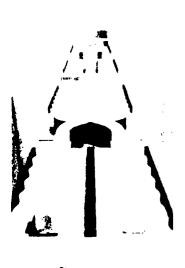
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LOCK HYDRAULIC SYSTEM MODEL AND PROTOTYPE STUDY DATA

Corps of Engineers Projects 1937-1984

by

Ellis B. Pickett, Frank M. Neilson

Hydraulics Laboratory

DEPARTMENT OF THE ARMY Waterways Experiment Station, Corps of Engineers PO Box 631, Vicksburg, Mississippi 39180-0631





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Preface

The model and prototype study data listings provided herein were prepared for use with a newly revised issue of EM 1110-2-1604, "Hydraulic Design of Navigation Locks." The text, Table 1, and References (Bibliography) will be included in the appendices of that manual. The effort was funded by the Headquarters, US Army Corps of Engineers, Publications Program during June - September 1984.

The work was accomplished under the general supervision of Messrs. H. B. Simmons and F. A. Herrmann, Jr., former and present Chiefs of the Hydraulics Laboratory (HL), US Army Engineer Waterways Experiment Station (WES); B. J. Brown, Chief of the Design Criteria Branch, Hydraulic Analysis Division, HL; and M. B. Boyd, Chief of the Hydraulic Analysis Division.

Review of the reports was accomplished by Mr. E. B. Pickett, under Purchase Order No. DACW39-84-M-3000 dated 13 June 1984. Coordination of the work with respect to its use in the manual was done by Dr. F. M. Neilson, Research Engineer, Design Criteria Branch. The computer program for sorting and listing the data was prepared by Mr. M. T. Hebler and the computer terminal work was done by Mrs. B. W. Gaskin, both of the Design Criteria Branch. This report was edited by Mrs. Beth F. Burris, Information Products Division, Information Technology Laboratory.

COL Dwayne G. Lee, CE, is the Commander and Director of WES. Dr. Robert W. Whalin is Technical Director.



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Contents

	Page
Preface	1
Introduction	3
Design and Operational Variables	3
Test Reports	3
Types of Data in Reports	4
Comments	4
Detailed Test Data Listings	5
Project Data Listings	6
References	7
Table l - Matrix	
Table 2 - Lock Hydraulic System Detailed Test Data Listings	
Table 3 - Geometric Details Studied	

LOCK HYDRAULIC SYSTEM MODEL AND PROTOTYPE STUDY DATA

Corps of Engineers Projects 1937-1984

Introduction

1. The availability of data from Corps of Engineers (CE) hydraulic model and prototype investigations of navigation lock filling/emptying systems is summarized in Table 1. This information was obtained from a detailed review of 81 reports on model and prototype studies (1937 to 1984) by the St. Paul District (STP), Bonneville Hydraulic Laboratory (BHL), and US Army Engineer Waterways Experiment Station (WES). Those reports are listed in the references. The organization and use of Table 1 are described in the following paragraphs.

Design and Operational Variables

2. A list of 251 hydraulic design and operational variables or significant features of navigation locks was derived from a review of such items in several kinds of filling/emptying systems used in CE locks. This list is organized in an upstream-to-downstream order and has a numbering sequence for easier manipulation in a digital computer. The major divisions of the list include:

11000 INTAKE SYSTEMS
12000 FILLING VALVE SYSTEM
13000 CULVERT-CHAMBER MANIFOLD
14000 LOCK CHAMBER
15000 EMPTYING VALVE SYSTEM
16000 OUTLET SYSTEM

A listing of operational variables is included with each major division in Table 1 rather than in a separate division in order to group more closely the aspects of the lock operation with their related design features. The 22 "NOTED ITEMS" lines include special items peculiar to the specific projects and are identified in the notes at the end of Table 1.

Test Reports

3. Each column heading in Table 1 includes a very brief identification

of the project and a brief notation of the report number (full title is given in the References). The reports are listed in chronological order by report date. The St. Paul District Report No. 46 contains six separate studies and is listed in six separate columns in Table 1. This gives an apparent total of 86 reports. All the reports are available on loan from the WES Technical Library.

Types of Data in Reports

- 4. The types of lock performance data available in each report and pertaining specifically or generally to the various design and operational features investigated are indicated by the following letter symbols in Table 1:
 - T time, curves, and/or tabulation of lock chamber filling and/or emptying, or actual valve motion in a few tests
 - 0 overfill or overempty in lock chamber
 - Q culvert system discharge, or lock chamber rate-of-rise or rateof-fall
 - H hawser force on tow in lock chamber, or in approach in a few tests
 - D tow displacement, unrestrained by hawsers
 - V local velocities in ports, approach channel, etc.
 - C surface currents, including vortices at intakes
 - B boils, or surface turbulence
 - W waves, or water-surface profiles in a few tests
 - S surges or oscillations
 - I internal flow pattern or flow distribution
 - Z local average piezometric pressures
 - P local transient or fluctuating pressures
 - L pressure losses or differences
 - F mechanical forces or torque
 - A vibration

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X - other data, usually air vent discharge; see last line of "NOTED ITEMS" at end of Table 1

Comments

5. The following comments result from observations during the

compilation of Table 1 and may be of interest and/or assistance to users searching for available test data pertinent to their design problems.

- a. Consideration of both the design and operational variables of the feature under investigation, both more general and more specific identification of the variables, and related items or systems may aid in finding data in Table 1 that might otherwise be missed.
- b. The listing of operational variables by divisions in Table 1 and the compilation process may have resulted in some inappropriate entries of types of data relative to the design variables. This would most likely occur where a report table or illustration includes several kinds of design and operational variables.
- c. Culvert roof pressures just downstream from a valve were considered pertinent to, and listed under, 12230 (15230) FILLING (EMPTYING) VALVE SYSTEM, FLOW PASSAGE, ROOF EL, although a different variable may have been the primary consideration.
- d. Surface currents at the intakes are listed under 11150 INTAKE SYSTEM, APPROACH, VORTEX CONTROL, although the vortex control may have been by valve operation or other feature rather than modification of the intake system.
- e. Variable 14000 LOCK CHAMBER was given data references for nearly every citation involving lock chamber filling and emptying times and/or rates, hawser forces, surges, etc. Although there may not have been any design variations within the chamber, it is a location of primary interest for most aspects of lock operation.

Detailed Test Data Listings

- 6. The data locations within each report are listed in Table 2. The LINE NO.'s correspond to those 251 numbers assigned to the design and operation variables. The TYPE OF DATA symbols correspond to those given in paragraph 4. The following FORMAT symbols are used:
 - T numbered table
 - P numbered photograph
 - D numbered drawings (plates)
 - F numbered figures (covers all illustrations in St. Paul District reports)
 - W text paragraph (or page if unnumbered paragraphs) containing information not indicated by the tables, photographs, drawings, or figures

The LOCATION IN REPORT numbers and letters are those of the pertinent tables, photographs, drawings, figures, and/or paragraphs in that particular report.

- 7. In addition to the indicated tables, photographs, drawings, and/or figures having data pertinent to a specific design and/or operational variable, the user should refer to those parts of the text where these data items are discussed. The comment in subparagraph 5b also applies to the detailed data listings. Also, variations in design and/or operational variables from table to table, photograph to photograph, etc., rather than in individual tables, photographs, etc., are covered by listings of all the related data item location numbers. The user should compare variables from item to item as well as in a single item.
- 8. A total of 24,635 location citations was derived from a total of 2,816 single- or combined-item references (tables, photographs, drawings, figures, text) in the 86 reports (81 publications).

Project Data Listings

9. Listings of available dimensional and other descriptive data pertinent to the project designs investigated in the model tests are given in Table 3. Entries of "XXXXX" indicate subheadings; entries of "X" indicate confirmed nonapplicable items; and blanks indicate unavailable information. A definition list for the abbreviations is included in the introduction to Table 3.

References

Number		oratory Cod Report Numb		Description
01	STP	No. 19	Apr 1937	"Laboratory Tests on Hydraulic Model of Pickwick Lock Hydraulic System, Tennessee River, Pickwick Landing, Tennessee."
02	STP	No. 21	Jul 1937	"Laboratory Tests on Hydraulic Model of Guntersville Lock Hydraulic System, Tennessee River, Guntersville, Alabama."
03	STP	~o. 27	Dec 1937	"Laboratory Tests on Hydraulic Model of Filling and Emptying System for Proposed Watts Bar Project Lock, Tennessee River, near Dayton, Tennessee."
04	STP	No. 28	Dec 1937	"Hydraulic Model Tests of the Filling and Emptying System for the Chickamauga Project Lock, Tennessee River."
05	STP	No. 34	Jul 1939	"Laboratory Tests on Hydraulic Model of Filling and Emptying System of the General Joe Wheeler Lock, Tennessee River, near Florence, Alabama."
06	STP	No. 44	Nov 1940	"Laboratory Tests on Hydraulic Model to Determine Navigation Conditions in Approaches to St. Anthony Falls Locks, Mississippi River, Minneapolis, Minnesota."
07	BHL	TR No. 8-1	Jun 1941	"Model Study of the Willamette Falls Locks, Oregon City, Oregon."
08-13	STP	No. 46	Oct 1941	"Prototype Lock Hydraulic Tests to Verify Model Experiments." (This volume con- tains reports on studies of six separate lock systems.)
14	STP	No. 48	Feb 1944	"Laboratory Tests on Hydraulic Model of Filling and Emptying System for the MacArthur Lock, St. Marys River, Sault Ste. Marie, Michigan."
15	STP	No. 49	Feb 1944	"Laboratory Tests on Hydraulic Models of Filling and Emptying Systems for the New Lock No. 2, Mississippi River, Hastings, Minnesota."
16	STP	No. 51	Aug 1945	"Laboratory Test on Hydraulic Models of a Submergible Tainter Lock Gate for St. Anthony Falls Lower Lock, Mississippi River, Minneapolis, Minnesota."

Number		oratory Code Report Number	Date	Description
17	STP	No. 52	Jun 1946	"Laboratory Tests on Models of Lock Hydraulic Systems."
18	WES	TM 2-282	Jun 1949	"Vacuum Tank Tests of Model Tainter Valve for McNary Dam."
19	WES	TM 2-309	Apr 1951	"Filling Characteristics, Algiers Lock, Intracoastal Waterway, Gulf Section, Louisiana; Model Investigation."
20	WES	TM 2-313	Jun 1950	"Study of Butterfly Valves for Pearl River Locks; Model Investigation."
21	STP	No. 56	Aug 1952	"Laboratory Tests on Hydraulic Models of Filling and Emptying Systems for the New Cumberland Locks, Ohio River."
22	WES	TM 2-358	Apr 1963	"Upstream Emergency Dam, Cheatham Lock, Cumberland River, Tennessee; Hydraulic Model Investigation."
23	STP	No. 59	Jan 1955	"Laboratory Tests on Hydraulic Models of Filling and Emptying Systems for Auxiliary Locks, Mississippi River."
24	BHL	TR No. 26-1	May 1955	"Navigation Lock for McNary Dam, Columbia River, Oregon and Washington; Hydraulic Model Investigation."
25	WES	MP 2-146	Nov 1955	"Prototype Tests of Filling and Emptying Systems, McNary Dam Lock, Washington, October 1955."
26	STP	No. 565	Mar 1957	"Laboratory Tests on Hydraulic Model to Determine Hawser Pull on Short Tows near Cumberland Main Lock, Ohio River, Suppl. Report," by D. L. Preston and J. J. Hartigan.
27	WES	TR 2-497	Apr 1959	"Filling and Emptying Characteristics of Calumet-SAG Project, Illinois; Hydraulic Model Investigation," by J. H. Ables.
28	WES	TR 2-500	May 1959	"Filling and Emptying System, Port Allen Navigation Lock, Gulf Intracoastal Waterway, Louisiana; Hydraulic Model Investigation," by J. H. Ables.
29	WES	TR 2-519	Aug 1959	"Walter F. George Lock and Dam, Chatta- hoochee River, Alabama and Georgia; Hydraulic Model Investigation," by E. S. Melsheimer.
30	WES	TR 2-527	Oct 1959	"Emergency Gate, Greenup Locks, Ohio River, Kentucky; Hydraulic Model Investigation," by E. S. Melsheimer.

Number		oratory Code Report Number	Da	te	Description
31	STP	No. 64	Oct	1959	"Laboratory Tests on Hydraulic Models of Filling and Emptying Systems for Chain of Rocks Locks, Mississippi River."
32	STP	No. 68	Mar	1960	"Laboratory Tests on Hydraulic Models of the Filling and Emptying Systems for Jackson Lock, Tombigbee River, Alabama."
33	STP	No. 69	May	1960	"Lower Lock and Dam Tainter Gates, St. Anthony Falls Upper Harbor Project, Mississippi River, Minneapolis, Minnesota; Hydraulic Model Investi- gation."
34	WES	TR 2-549	Jun	1960	"Filling and Emptying System, Old River Navigation Lock, Louisiana; Hydraulic Model Investigation," by J. H. Ables and F. R. Brown.
35	WES	TR 2-552	Jun	1960	"Hydraulic Prototype Tests of Tainter Valve, McNary Lock, Columbia River, Washington," by E. B. Pickett.
36	WES	TR 2-556	Aug	1960	"Filling and Emptying Characteristics of Barge Canal Lock, Sacramento River Deep- Water Ship Channel Project, California; Hydraulic Model Investigation," by J. H. Ables and T. E. Murphy.
37	WES	TR 2-561	Apr	1961	"Filling and Emptying System, New Poe Lock, St. Marys River, Sault Ste. Marie, Michigan; Hydraulic Model Investigation,' by J. H. Ables and T. Schmidtgall.
38	STP	No. 70	Apr	1961	"Intake Manifolds for Demopolis and Warrior Locks, Tombigbee River, Alabama and Jim Woodruff Lock, Apalachicola River, Florida; Hydraulic Model Investigation," by F. T. Mertes and M. E. Nelson.
39	WES	TR 2-537	Jun	1961	"Culvert Tainter Valves, New Lock No. 19 Mississippi River; Hydraulic Model Investigation."
40	STP	No. 71	Jun	1961	"Filling and Emptying Systems for Dwight D. Eisenhower and Bertrand H. Snell Locks, St. Lawrence Seaway Project; Hydraulic Model Investigation," by S. Fidelman.
41	WES	TR 2-573	Ju1	1961	"Intake Studies, Dardanelle Lock, Arkansas River, Arkansas; Hydraulic Mode Investigation," by J. H. Ables.
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Number		oratory Code Report Number	Date	Description
42	STP	No. 73	Sep 1961	"Filling and Emptying Systems for Walter F. George Lock, Chattahoochee River, Alabama-Georgia; Hydraulic Model Investigation," by S. Fidelman and M. E. Nelson.
43	STP	No. 74	Jan 1962	"Filling and Emptying Systems for Greenup and Markland Locks, Ohio River; Hydraulic Model Investigation," by J. J. Hartigan and F. J. Ryder.
44	STP	No. 65	Jun 1962	"Laboratory Tests on Hydraulic Models of Filling and Emptying Systems for a Proposed 600-Ft Lock and Dam No. 19, Mississippi River, Keokuk, Iowa; Hydraulic Model Investigation."
45	BHL	TR No. 111-1		"Miter Gate Bottom Seals, Panama Canal Locks; Laboratory Investigation."
46	STP	No. 66	Jun 1963	"Filling and Emptying Systems for New 1200-Ft Lock No. 19, Mississippi River, Keokuk, Iowa; Hydraulic Model Investigation," by D. L. Preston and J. J. Hartigan.
47	STP	No. 75	Jun 1963	"Filling and Emptying Systems for Barkley Lock, Cumberland River, Kentucky; Hydraulic Model Investigation," by S. Fidelman.
48	WES	MP 2-622	Feb 1964	"Emergency Gate Performance, McAlpine Lock, Ohio River, Kentucky; Hydraulic Prototype Tests."
49	WES	TR 2-651	Jun 1964	"Operating Forces on Miter-Type Lock Gates," by J. L. Grace, T. E. Murphy, and F. R. Brown.
50	STP	No. 76	Dec 1964	"Filling and Emptying Systems for St. Anthony Falls Locks, Mississippi River, Minnesota; Hydraulic Model Investigation," by S. Fidelman and J. J. Hartigan.
51	WES	TR 2-678	Jun 1965	"Filling and Emptying System, Jonesville Lock, Ouachita-Black Rivers, Louisiana; Hydraulic Model Investigation," by N. R. Oswalt, J. H. Ables, M. B. Boyd, and T. E. Murphy.
52	BHL	TR No. 56-1	May 1965	"Navigation Lock, The Dalles Dam, Columbia River, Oregon and Washington; Hydraulic Model Investigation," by M. J. Webster and H. P. Theus.

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Number		oratory Code Report Number	Date	Description
53	WES	TR 2-685	Aug 1965	"Prototype Hawser-Force Measurements, Jackson Lock, Tombigbee River, Alabama," by J. V. Dawsey, C. J. Huval, and W. C. Blanton.
54	WES	TR 2-689	Aug 1965	"Tests of Structure Orientation, Spill-way, and Lock Emergency Gate, Barkley Lock and Dam, Cumberland River, Kentucky; Hydraulic Model Investigation," by T. E. Murphy and R. S. Cummins.
55	WES	TR 2-698	Nov 1965	"Lock Filling and Emptying System, Holt Lock and Dam, Warrior River, Alabama; Hydraulic Model Investigation," by T. E. Murphy and J. H. Ables.
56	WES	MP 2-794	Feb 1966	"Lock Culvert Outlet Basins; Hydraulic Model Investigation," by J. H. Ables and M. B. Boyd.
57	WES	TR 2-713	Feb 1966	"Filling and Emptying System, Cannelton Main Lock, Ohio River, and Generalized Tests of Sidewall Port Systems for 110-by 1200-Ft Locks; Hydraulic Model Investigation," by J. H. Ables and M. B. Boyd.
58	WES	TR 2-718	Mar 1966	"Filling and Emptying Systems, Millers Ferry and Jones Bluff Locks, Alabama River, Alabama; Hydraulic Model Investi- gation," by J. H. Ables and M. B. Boyd.
59	WES	TR 2-734	Jul 1966	"Culvert Pressures, Greenup Lock, Ohio River, Kentucky; Hydraulic Prototype Tests," by P. M. Smith and R. A. Yates.
60	WES	TR 2-739	Sep 1966	"Filling and Emptying System, Cordell Hull Navigation Lock, Cumberland River, Tennessee; Hydraulic Model Investigation," by N. R. Oswalt and M. B. Boyd.
61	WES	TR 2-743	Nov 1966	"Filling and Emptying Systems, Low-Lift Locks, Arkansas River Project; Hydraulic Model Investigation," by J. H. Ables and M. B. Boyd.
62	WES	TR 2-778	May 1967	"Modernization of Filling and Emptying System, Existing McAlpine Lock (Old No. 41), Ohio River, Louisville, Kentucky; Hydraulic Model Investigation," by J. H. Ables and T. E. Murphy.

Number		oratory Code Report Number	Date	Description
63	WES	TR H-68-4	Sep 1968	"Effect of Valve Position in a Sidewall Port Filling System, Newburgh Lock, Ohio River; Hydraulic Model Investigation," by J. O. Farrell and J. H. Ables.
64	WES	TR H-69-5	Apr 1969	"Filling and Emptying System, Dardanelle Lock, Arkansas River; Hydraulic Model Investigation," by J. H. Ables and M. B. Boyd.
65	WES	TR H-70-2	Mar 1970	"Operating Forces on Sector Gates Under Reverse Heads; Hydraulic Model Investi- gation," by N. R. Oswalt.
			Dec 1971	"Appendix A: Results of Supplemental Tests; Hydraulic Model Investigation," by N. R. Oswalt and T. E. Murphy.
66	WES	MP H-71-4	Feb 1971	"Calcasieu Saltwater Barrier Prototype Sector Gate Tests," by D. F. Bastian.
67	WES	TR H-72-6	Sep 1972	"Navigation Conditions and Filling and Emptying System, New Bankhead Lock, Black Warrior River, Alabama; Hydraulic Model Investigation," by N. R. Oswalt, J. H. Ables, and T. E. Murphy.
68	BHL	TR No. 32-1	May 1973	"Filling and Emptying System, Ice Harbor Lock, Snake River, Washington; Hydraulic Model Investigation," by L. Z. Perkins.
69	BHL	TR No. 98-1	Jul 1974	"Filling and Emptying System, John Day Lock, Columbia River, Oregon and Washington; Hydraulic Model Investiga- tion," by A. J. Chanda and L. Z. Perkins.
70	BHL	TR No. 105-1	May 1975	"Intake Manifolds and Emptying Valves for Lower Monumental Lock, Snake River, Washington," by A. J. Chanda and L. Z. Perkins.
71	WES	TR H-75-11	Jun 1975	"Barkley Lock Prototype Tests, Cumberland River, Kentucky," by F. M. Neilson.
72	WES	HP H-75-7	Jul 1975	"Lock Design, Sidewall Port Filling and Emptying System," by T. E. Murphy.
73	BHL	TR No. 115-1	Sep 1975	"Filling and Emptying System, Little Goose Lock, Snake River, Washington; Hydraulic Model Investigation," by A. J. Chanda and L. Z. Perkins.
74	WES	TR H-77-7	Apr 1977	"Filling and Emptying System for Medium- Lift Locks, Trinity River, Texas; Hydraulic Model Investigation," by N. R. Oswalt.

Number		oratory Code Report Number	Date	Description
75	WES	TR H-78-9	Jun 1978	"Bay Springs Canal Surge Study, Tennessee-Tombigbee Waterway, Mississippi and Alabama; Hydraulic Model Investiga- tion," by C. H. Tate, Jr.
76	WES	MP H-78-10	Sep 1978	"Single-Valve Prototype Tests, Main Lock, Locks and Dam 26, Mississippi River, Alton, Illinois," by E. D. Hart.
77	WES	TR H-78-16	Sep 1978	"Filling and Emptying System, New Ship Lock, Mississippi River-Gulf Outlet, Louisiana; Hydraulic Model Investi- gation," by J. H. Ables, Jr.
78	WES	TR H-78-19	Nov 1978	"Filling and Emptying System for Bay Springs Lock, Tennessee-Tombigbee Waterway, Mississippi; Hydraulic Model Investigation," by J. H. Ables, Jr.
79	BHL	TR No. 126-1	Sep 1979	"Navigation Lock for Lower Granite Dam, Snake River, Washington; Hydraulic Model Investigations, Bonneville, Oregon," by L. Z. Perkins.
80	WES	TR HL-79-21	Dec 1979	"Modifications to Filling and Emptying System of Lock No. 1, Mississippi River, Minneapolis, Minnesota; Hydraulic Model Investigation," by J. H. Ables, Jr.
81	WES	TR-80-13	Aug 1980	"Prototype Filling and Emptying System Measurements, New Bankhead Lock, Black Warrior River, Alabama," by A. R. Tool (includes Appendixes A-B).
82	WES	TR HL-80-17	Sep 1980	"Lock Approach Canal Surge and Tow Squat at Lock and Dam 17, Arkansas River Project; Mathematical Model Investigation," by C. J. Huval (includes Appendix A).
83	WES	TR HL-81-10	Sep 1981	"Lock Culvert Valve Loss Coefficients; Hydraulic Laboratory Investigation," by G. A. Pickering.
84	BHL	TR No. 194-1	Apr 1983	"Emergency Closure System and Flood Control Regulation Gate for Hiram M. Chittenden Locks at Lake Washington Ship Canal; Hydraulic Model Investigation," by M. M. Kubo.
85	WES	TR HL-84-8	Sep 1984	"Filling and Emptying System, Walter Bouldin Lock, and Lock Culvert Valve for Coosa River Waterway, Alabama; Hydraulic Model Investigation," by J. F. George.

Number	Laboratory Code umber and Report Number		Date	Description
86	WES	Unassigned	Draft	"John Day Lock Hydraulic Prototype Tests, Columbia River, Washington," by E. B. Pickett and F. M. Neilson.

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TABLE 1 LOCK HYDRAULIC SYSTEM MODEL AND PROTOTYPE STUDY DATA

PAGE SEQUENCE FOR TABLE 1

DESIGN AND OPERATIONAL	TES	T REPORT CO	OLUMN NUM	BERS
VARIABLES	01 TO 20	21 TO 45	46 TO 65	66 TO 90
11000 TO 11275	(1)	2	3	(4)
11300 TO 12290	(5)	6	7	(B)
12300 TO 13236	9	19	11	12
13240 TO 14180	(2)	(4)	15	(6)
14200 TO 15290	(1)	18	19	20
15300 TO 16260	21 7	22	23	24
16300 TO 16460 AND "NOTED ITEMS"	25	26	27	28
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- Select DESIGN and/or OPERATIONAL variable(s) of interest and note line number(s) (11000 to 16460).
- Trace selected line(s) across appropriate tables and note which REPORTS (columns) contain TYPES OF DATA (T,O,Q, etc.) of interest.
- 3. See last four pages of TABLE 1 for descriptions of NOTED ITEMS and X's.

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OPE	DESIGN AND RATIONAL VARIABLES	Pick STP	Cunt	Watt	Chic	Wheeler STP 34	St A Appr STP	Will BHL	Pick Prot STP	Prot STP	Wils Prot STP	Ohio Prot STP	Cunt Prot	Hont Prot STP	Mac . STP	M188 R STP 49	St A Tntr STP	Lock Hyd Systems STP 52	Te in	Pear B'fly	Algiers TH 2-30
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13240	Ports	QVIL	VIZ		ðΓ	QVI		TOQH CBS1:	tovi:	TOVI	TVI	TVI	TOQV IZL	TVI	CI	TOQ HSI		TQVS 12L			
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13242	Arrangement						С						L				L	TQV SIL			
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13244	Noted items			ļ	ļ						<u> </u>	<u> </u>	L.,	ļ		TOOH	s •	TQV SIL			
13250	Port throat		TQSI		Q						ļ	L					<u> </u>	<u> </u>		<u> </u>	
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13370	Noted stems	TQD	TQD	705	Too	7000		TOHC	TOQV	TOQV	TOQV	TOQBS	TOOV	c Toqv	TOQ	TOQH	TOOH	TQS		_	BW
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14160	Impact barrier	 		 	+	 			-	-	├	├		 	-				-	 	
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(ADE	DESIGN AND RATIONAL VARIABLES	M188 R 19 (1200 STP 66	Barkley STP 75	McAlpine Prototype NP 2-622	Miter Gate TR 2-651	St Anthony STP 76	Jonesville TR 2-678	The Dalles BHL 56-1	Jackson Prototype TR 2-685	Sark) Sutie	10 It	Culvert Outlet Basin MP 2-794	Cannelton TR 2-713	11 12 E	Greenup Prototype TR 2-734	orde R	Ark R Low-L TR 2-743	McAlpine TR 2-778	Newburgh Valve Position TR H-68-4	P E	Bayou Boeuf Sector Gate TR H-70-2
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13242	Arrangement		†				TOQ HCS						TOQHV	TOQHC S1ZP			THV	TOQH BWZ			
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	10	Calcasieu Prototype Gate MP N-71-4	Bankhead TR H-72-6	ice Marbor BML 32-1	John Day BHL 98-1	Lower Monumenta Intake and Valve BHL 105-1	Barkley Prototype TR M-75-11	Sidewall Port System MP H-75-7	Little Goose BML 115-1	Trinity River TR H-77-7	Bay Springs Canal TR M-78-9	Hiss R 26 Prototype MP H-78-10	Miss R/Gulf Out TR H-78-16	Bay Springs TR N-78-19	Lower Granite BML 126-1	Miss R 1 TR HL-79-21	Bankhead Prototype TR HL-80-13	Arkansas R 17 Canal TR HL-80-17	Culvert Valve Losses TR HL-81-10	H M Chittenden Gate BHL 194-1	W Bouldin Lock; Coosa R Valves TR ML-84-8	John Day Prototype (In preparation)			
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	PROJECT AND REPORT	1 ck	Guntersville STP 21	Watts Bar STP 27	Chickamauga STP 28	١ ٠	St Anthony Falls Approach STP 44	Willamette Falls BHL 8-1	etck otype 66	ler otype	on otype 66	Ohio R 41 Prototype STP 46	Guntersville Prototype STP 46	Montgomery Is Prototype STP 46	Hat Arthur STP 48		St Anthony Falls Intr Gate (Lwr) STP S1	Lock Mydraulic Systems STP-52	ry er Valve 484	Prast R B'ily Valves TM 2-313	2-304
OPE	DESIGN AND RATIONAL VARIABLES	Pickwick STP 19	Gunte	Vatte STP	Chic	STP 34	St Anthon Approach STP 44	W1114me	Prote STP	Prote STP	Wilse Prote STP	Ohio Prote STP 4	Gunte Prote STP 4	Mont p Prote STP	Tar A	MISS R STP 49	St Ar Thtr STP	Lock Syste STP			Algiers TH 2-30
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OPE	DESIGN AND ERATIONAL VARIABLES	STP 66	Barkley STP 75	McAlpine Prototype MP 2-622	Hiter TR 2-6	St Anthony STP 76	Jonesville TR 2-678	The Dalles BHL 56-1	Protot	Barkley Outlet and TR 2-689	Holt TR 2-(Culve Basın MP 2-	Cannelton TR 2-713	Hille and Ja	Green Proto TR 2-	Corde TR 2-	Ark R Lo TR 2-743	HcAlpine TR 2-778	Valve TR H	Darda TR H-	Bayou Secto TR H-
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14240	Valve schedule	TOQ HS1	TOQ HZ	TQVB WFX	F	TOQH CWSZ	TH	TOHS	TOHS	BWZL	THP						TH		_		
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DESIGN AND OPERATIONAL VARIABLES	Pickwick STP 19	3	ST ST	Chic	Whee ler STP 34	Appr.	1117.	Prot. STP	Prot.	Prot	Proto	Gunte Prote STP	Prot STP	Hac STP	Miss R STP 49	St Ar Tatr STP	Syste STP	Tern F	B 41.	Algrers TH 2-30
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16130 Upstr size (W×H)																				
16140 Dnstr size (W×H)			<u> </u>								<u> </u>					L				
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16330	Guide/guard walls		\vdash	\dashv		†	1	1	├		 		<u> </u>	 	ļ		-		†	 	٠.	
16340	Energy dissipator	\vdash	+-	┪			1		-				\vdash	\vdash	 	 	С		 	-		_
16350	Baffles	-	┼	-		 			 					 	 	-			├	 	-	
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16430	Valve schedule		\vdash	\dashv			TQS		QV1Z	 			 -	 	 	TOQ HS1	 	THS	 	 	<u> </u>	
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16450	Initial twel		+	_			t	<u> </u>	TOQH	\vdash	†		┢	\vdash				┢				
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11170	Intake system approach	-	\dagger	寸			1		d wall	 				 				┢		<u> </u>		
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11370	Intake trans conduit		t	寸		 	 	 	-	 	1			 				1			-	
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12290	Fill valve flow passage	-	t	7		t	<u> </u>					<u> </u>	t	<u> </u>				1			defi	1.5
12380	Fill valve operation		T	7			1	1					†								Incl	
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13229	Manifold br lats, long		✝	7	-		Venc	Ì			VVIIC	1	İ				, grac	<u> </u>	1 -			
13236	Manifold transitions		 	7		 	†	1	-	1	 		 		 	-		1		 		
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13370	Culv-cham man operation	Roof		_		 	╁┈	!		1	 				<u> </u>		1000	<u> </u>	1	port		<u> </u>
14180	Lock chamber features	- vent	İ	_		†	1		with intr g		T						Loop	culve r difi	rt -			Sect
14214	Tow in lock chamber					—	1	T		positi	on .		1		 		Ī					reces
14290	Lock chamber operation			7		†	1	<u> </u>	Ţ.,	Ť	†	<u> </u>	<u> </u>	†		Hite	r gate open		T -			
15170	Emptying valve																					٦
15290	Empty valve flow passa	Ke.		\dashv		<u> </u>	1	1	<u> </u>		<u> </u>		<u> </u>	1	 				1			
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Table 2 Lock Hydraulic System Detailed

Test Data Listings

The two-digit numbers at the top of each page correspond to the report column numbers in Table 1. The LINE NO.'S in the headings of the listings correspond to those 251 numbers assigned to the design and operation variables. The TYPE OF DATA symbols correspond to those given for Table 1 (listed in paragraph 4). The FORMAT symbols are:

- T numbered table
- P numbered photograph
- D numbered drawings (plates)
- F numbered figures (covers all illustrations in St. Paul District reports)
- W text paragraph (or page if unnumbered paragraphs) containing information not indicated by the tables, photographs, drawings, or figures

The LOCATION IN REPORT numbers and letters are those of the pertinent tables, photographs, drawings, figures and/or paragraphs in that particular report.

Table 2
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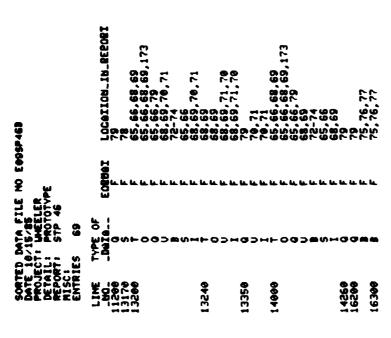
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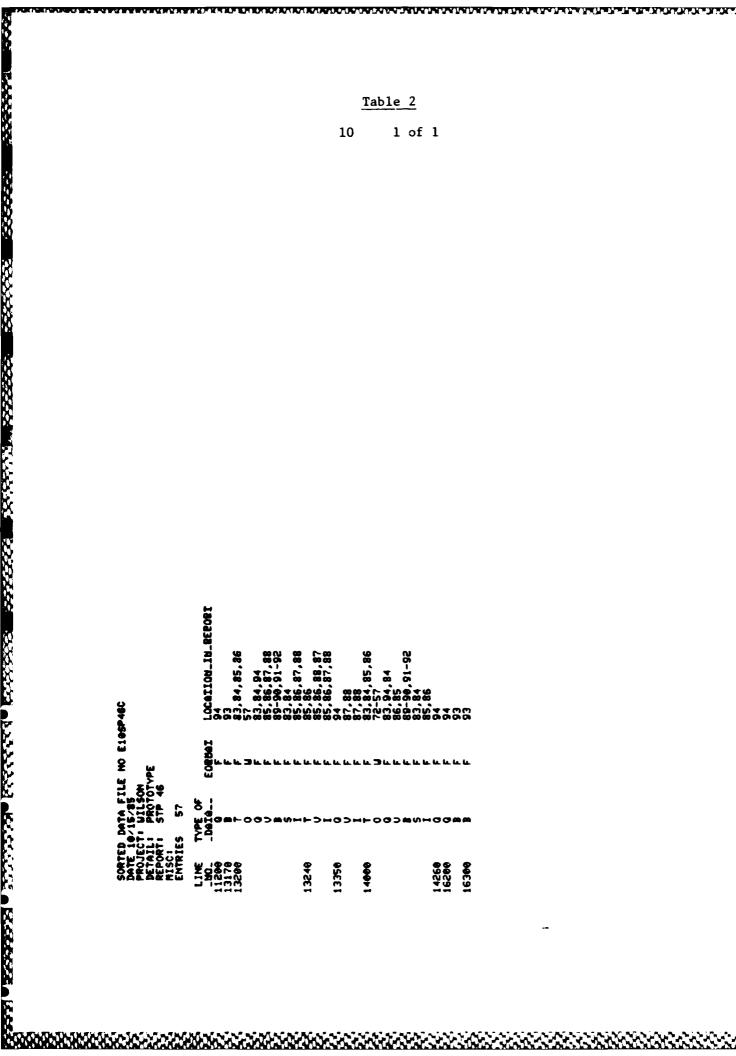
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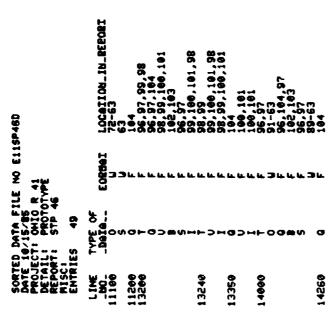
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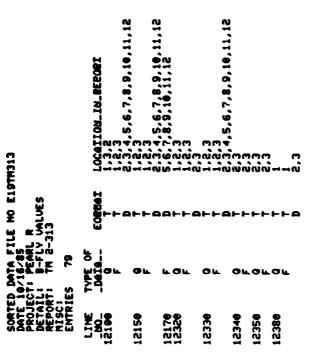
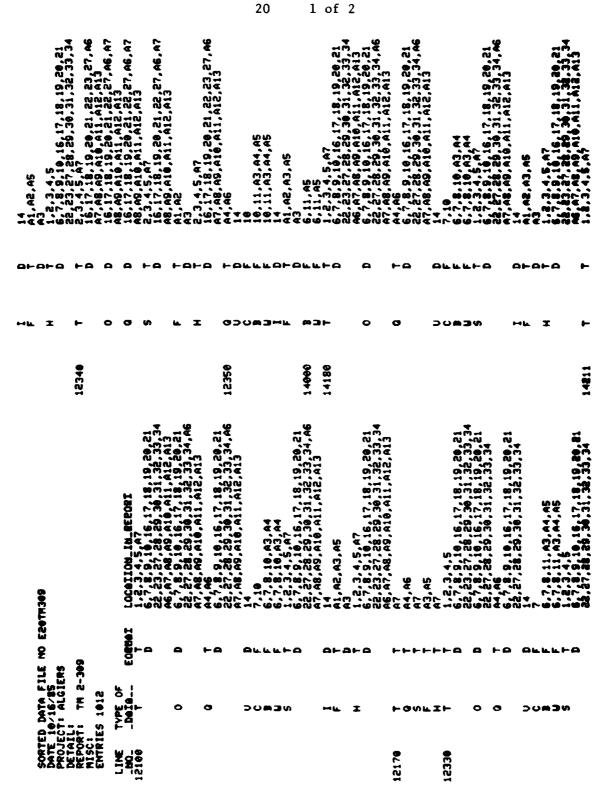


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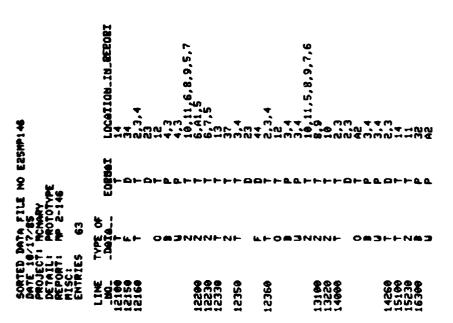
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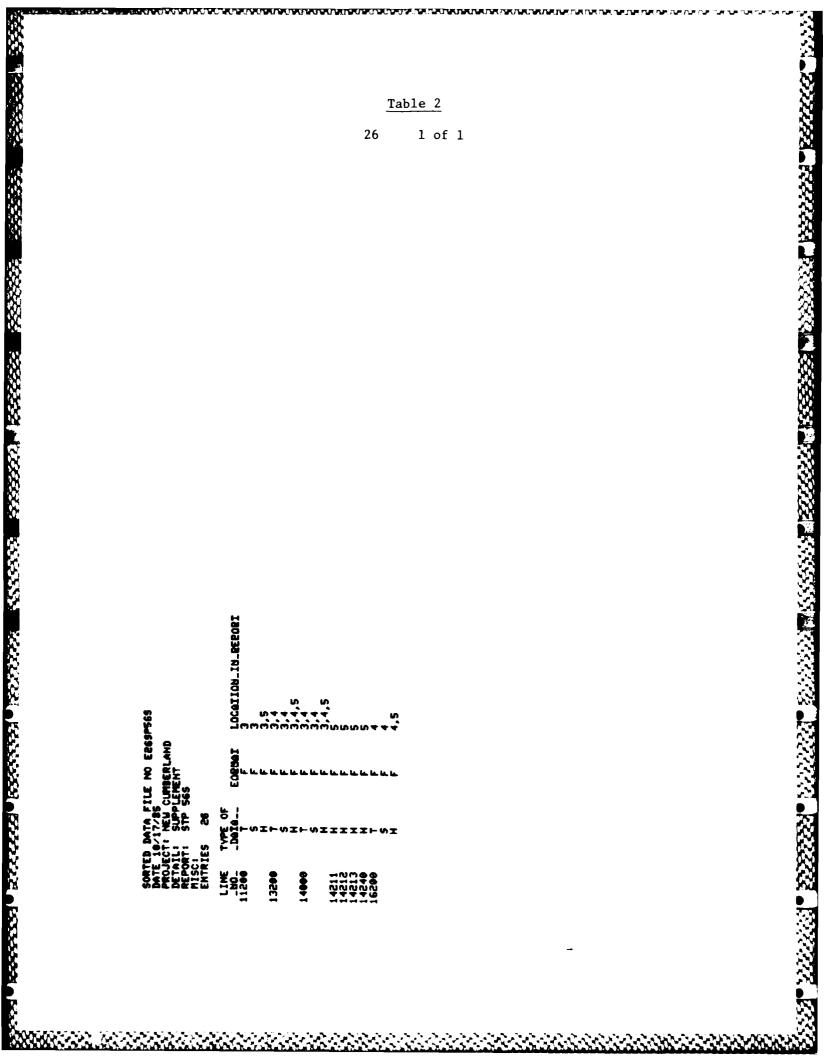
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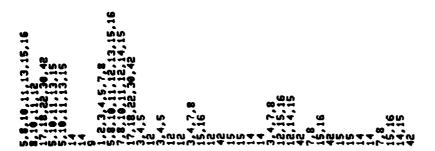
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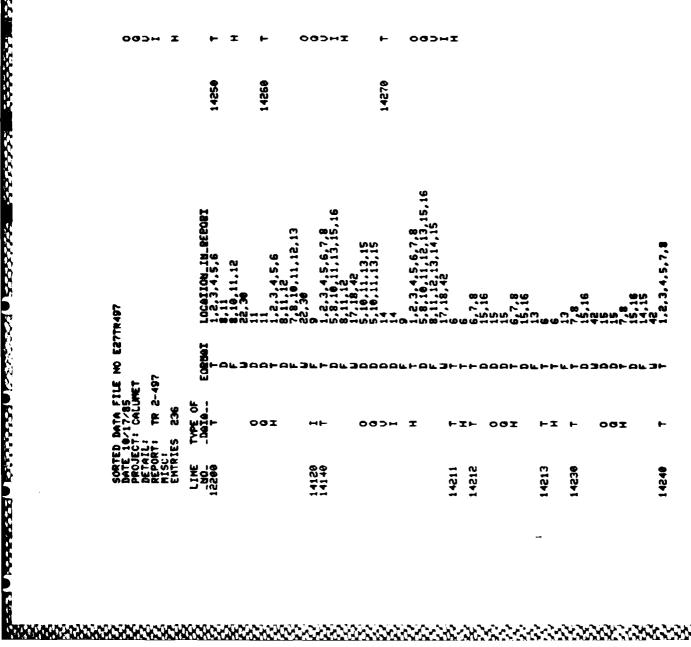
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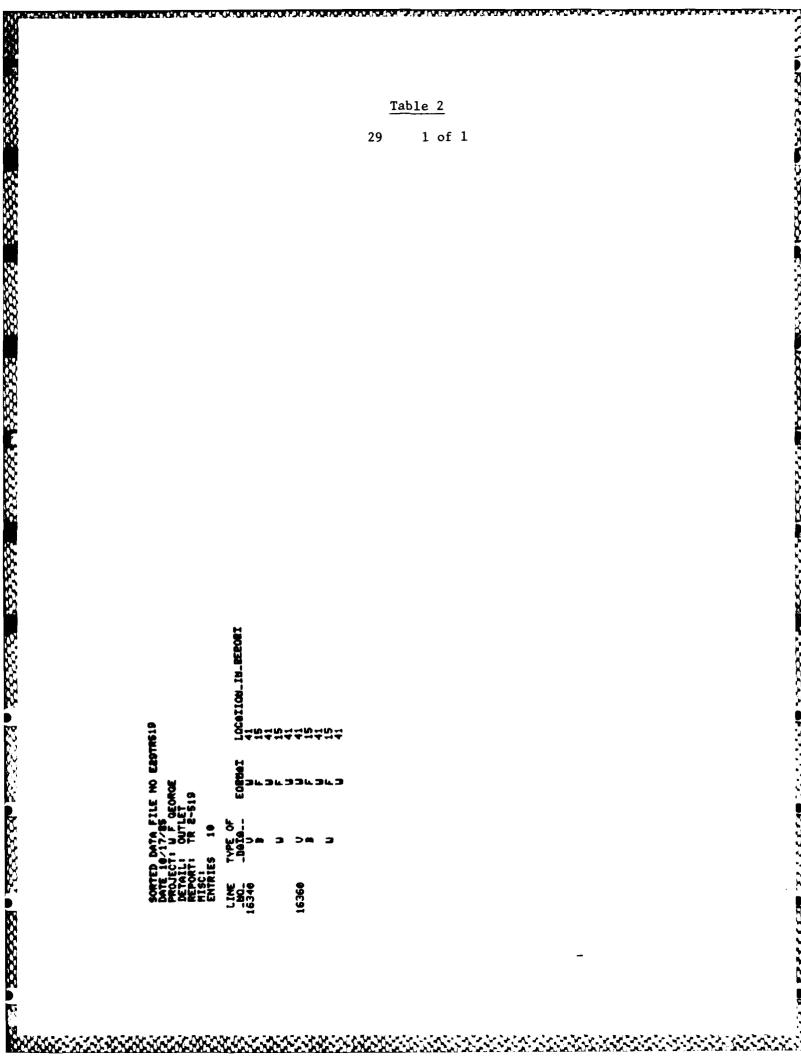


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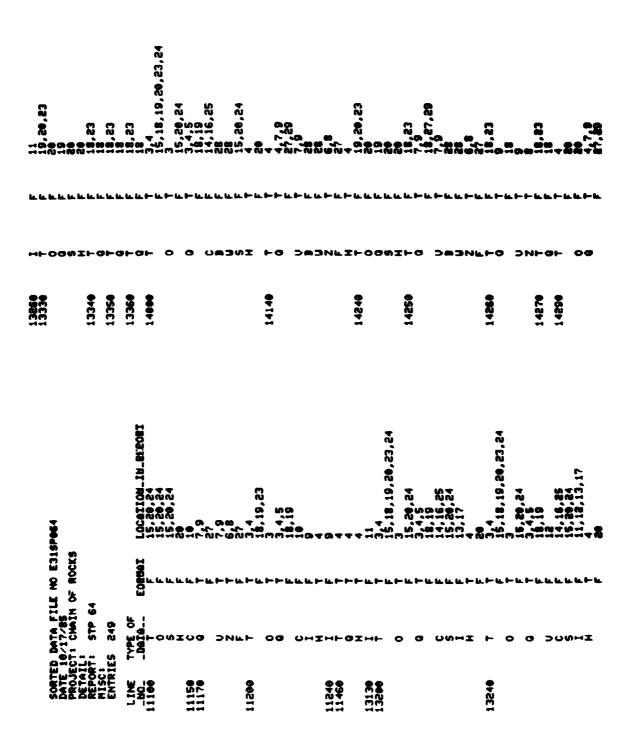


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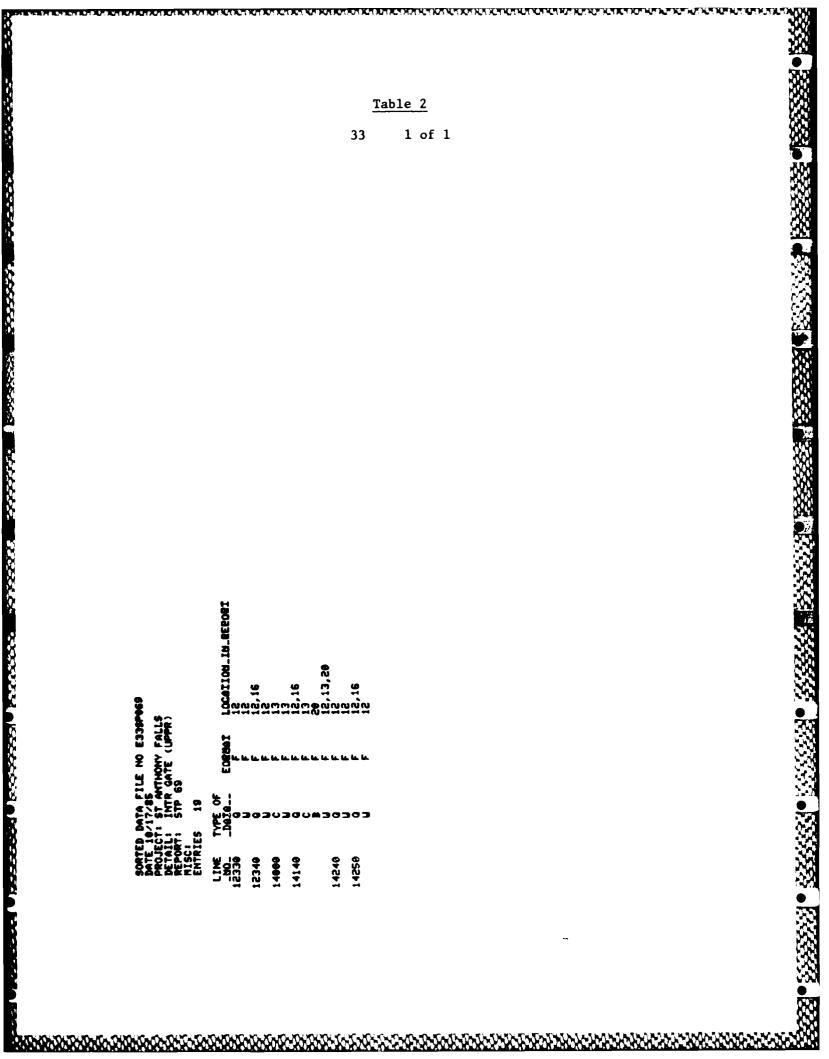


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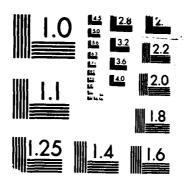
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CONTROL CONTROL DESCRIPTION - PRODUCTION - PRODUCTION -

Table 2

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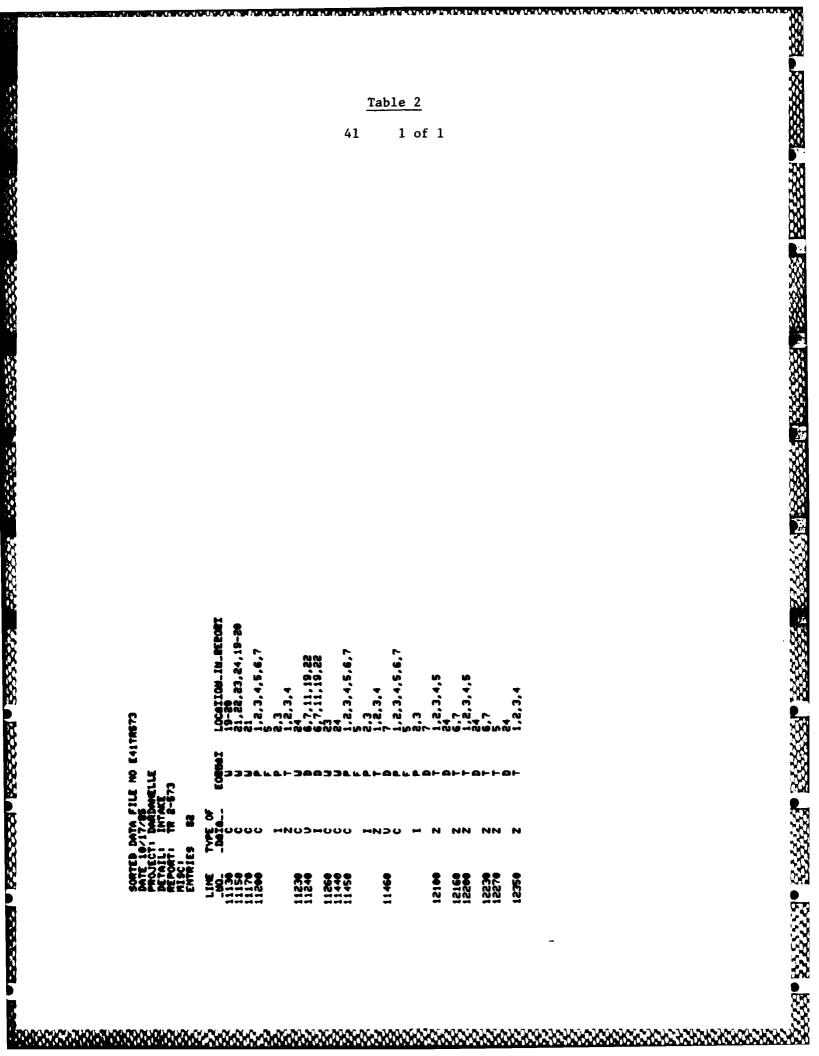


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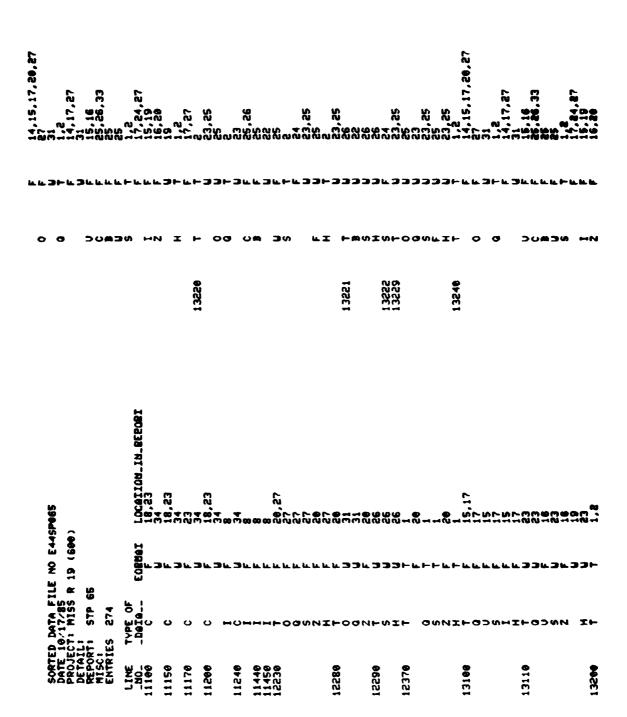
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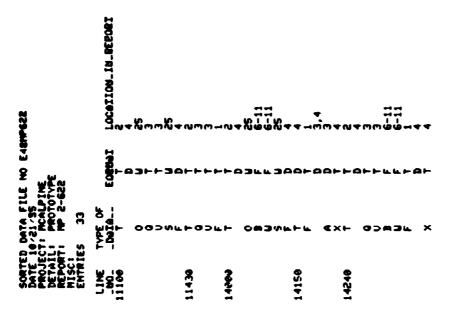
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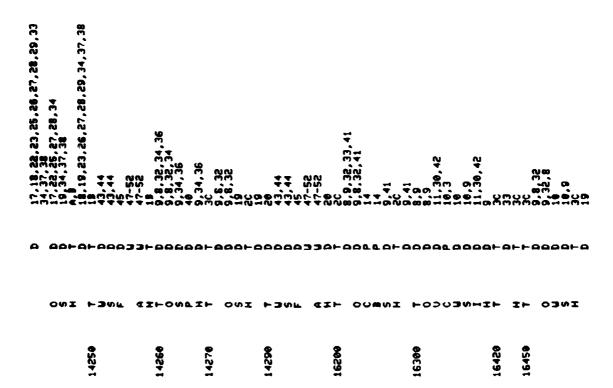
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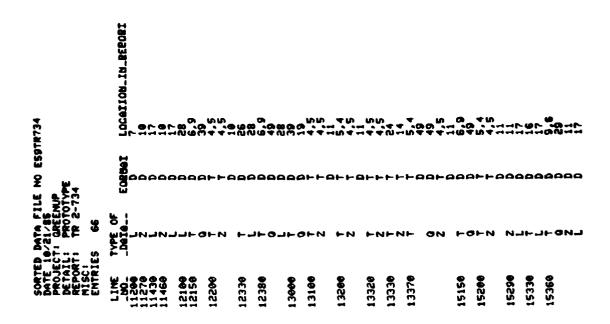
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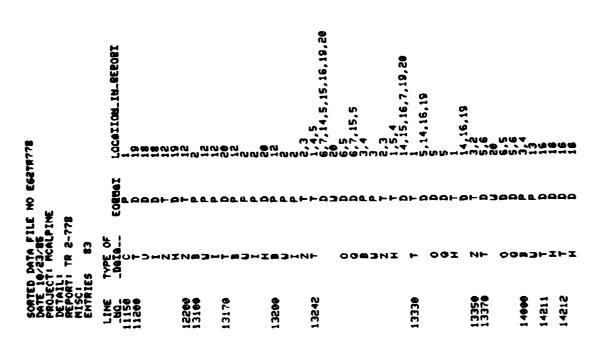
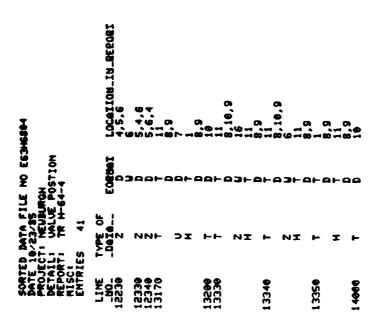


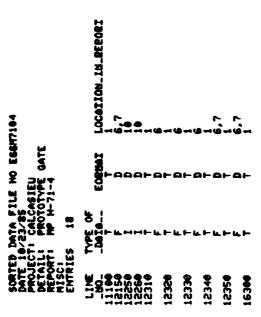
Table 2
63 1 of 1



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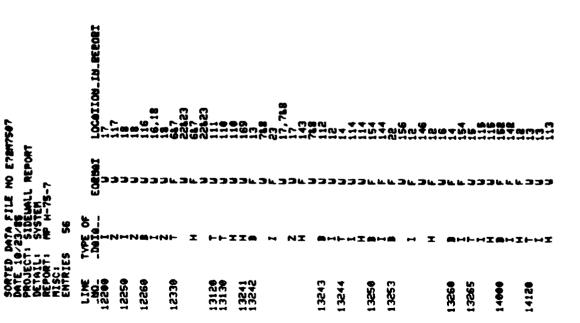
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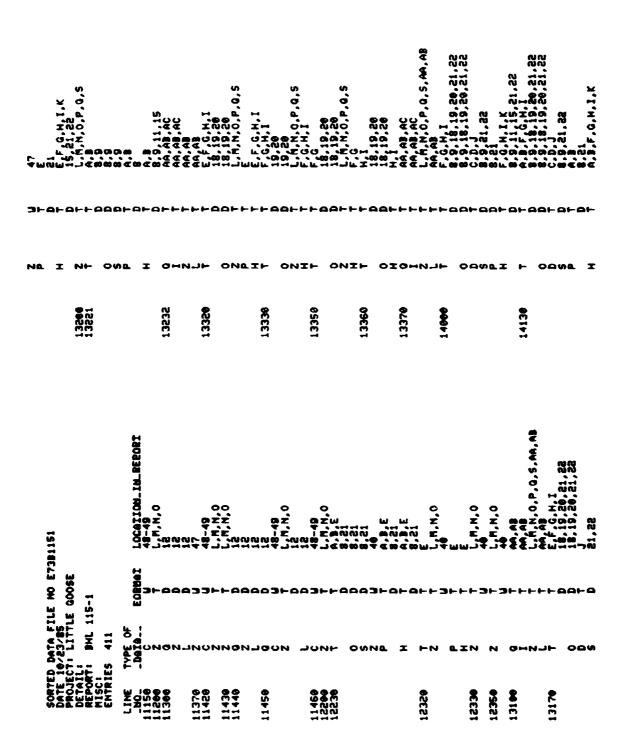


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73 2 of 2

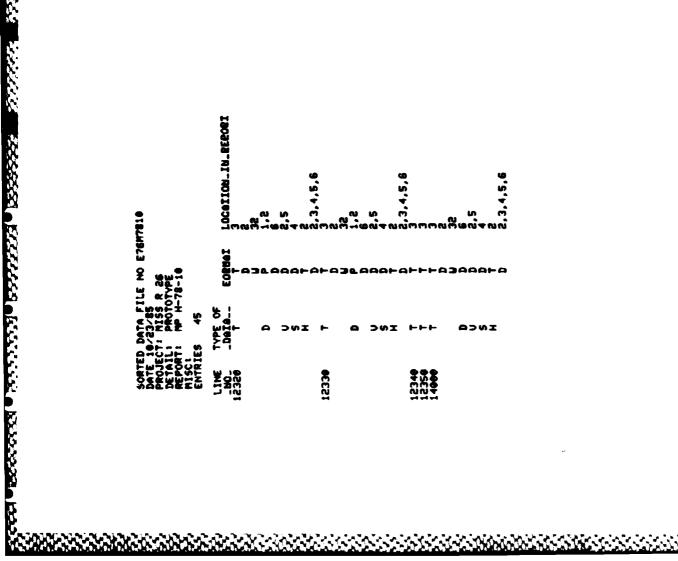
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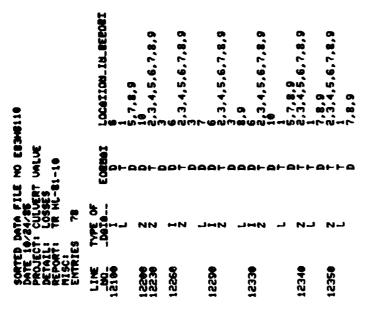
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Table 3 Geometric Details Studied

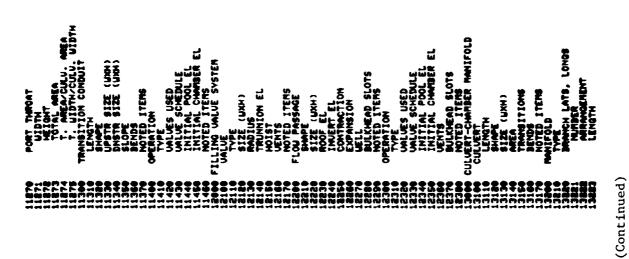
The two-digit numbers at the top of each page correspond to the report column numbers given in Table 1. The design and operational variables are the first listing [Project Data File Number (PLEGEND)] and apply to all listings in this report.

Entries of "XXXXX" indicate subheadings; entries of "X" indicate confirmed nonapplicable items; and blanks indicate unavailable information.

Emphasis is on brevity since the cited report is available for detailed descriptions of each item. A definition list of useful geometric delineators is as follows.

Variable	Line No.	Symbols	Definition
Fill/Empty	10430	BLC (SBLC, IBLC, BLC-1)	Bottom lateral manifold culverts (various arrangements)
		SG (SGG, LCSG, LOOP)	End filling and empyting systems; sector gate (various alternatives)
		SP	Sideport systems (also multiport)
		HB4, HB8, VB4, VB8	Various arrangements at longitudinal floor manifolds
Lock Gates	10450	MG	Miter gate
		SG	Sector gate
		TG	Tainter gate
		VS	Vertical (submergible) lift gate
		vo	Vertical (over) lift gate
(Valve)	102110	RT	Reverse tainter
Type		CT	Conventional tainter
		VL	Vertical lift
		SG	Sector gate
		B-FLY	Butterfly valve

PARAMENTAL SACRAMENT PROPERTIES PROPERTIES



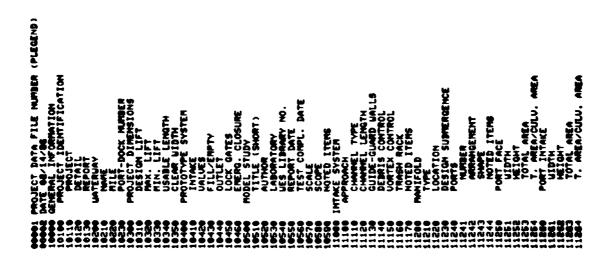
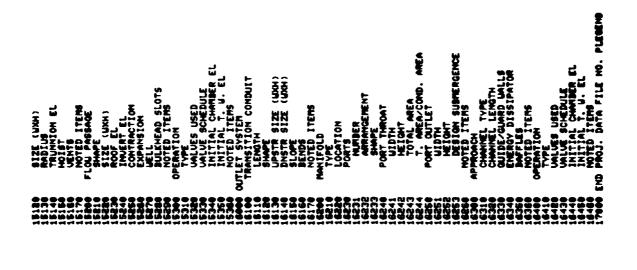
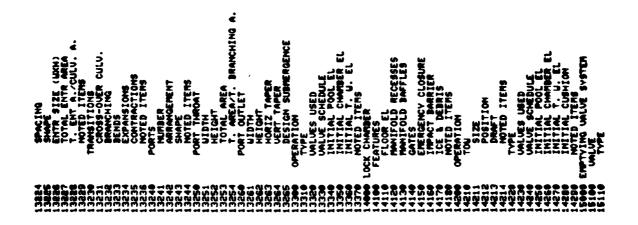
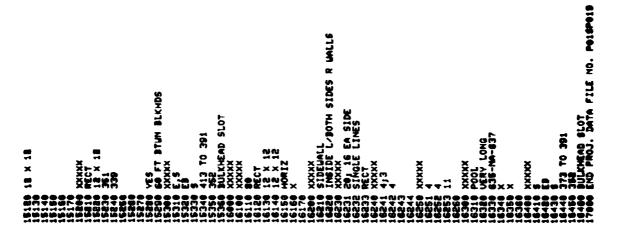


Table 3 Project Data File Number (PLEGEND) (Sheet 2 of 2)

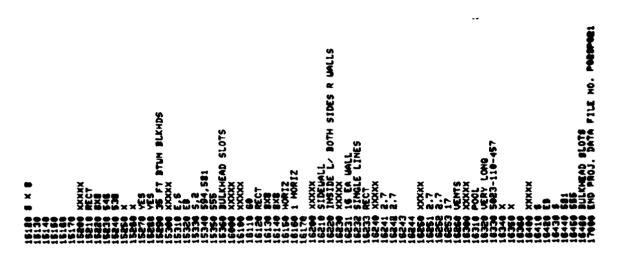




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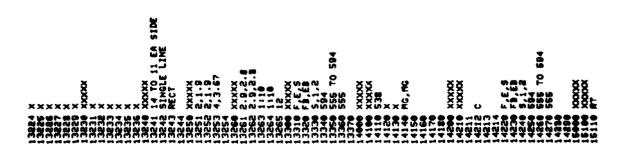




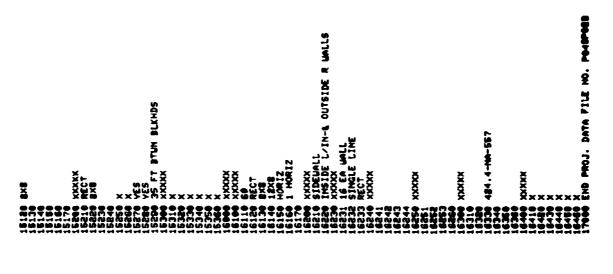


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MI-22.5 TO -18, GI41
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# APR 1941

# 1:25

SYSTEM

MAIN LOCK-BASIN-GUARD LOCK

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WERY LONG

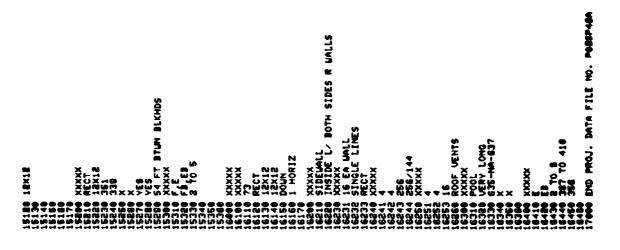
100-NA-100
SIDEMALL
MISIDE APPROACH WALLS
MIS.75; GIZ TO 15
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MIS.75; GIZ TO 15
SINGLE LINE
SINGLE LINE
AXXXX
AGSINGLE SIDE SYSTEM
                                                                                                                                                                                                                                          XXXXX
WILLAMETTE FALLS LOCKS
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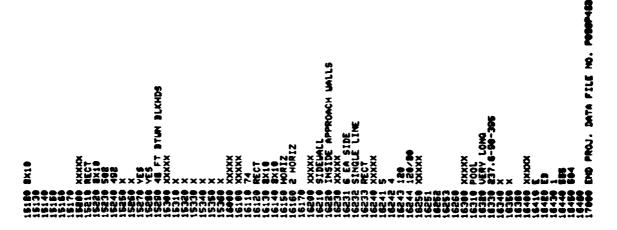
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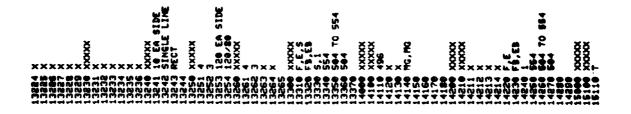
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140 M:12.2 D, 7x11, 36x5
150 M: MORIZ
150 M: MORIZ
170 G: SINGLE SIDE SYSTEM
270 XXXXX
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#12-2 D, 7x11, 36x5
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# HORIZ 45, D0 DEG
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H: 1.6, 4, 3 TO 1.5 D; G: 8 TO G: 2 TO 10.6
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#1-7.5, -5, 6135
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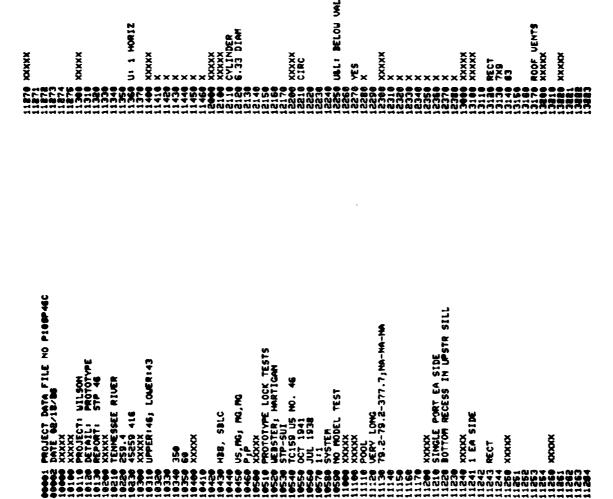
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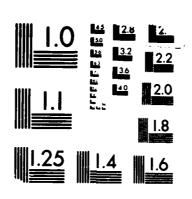




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33. DATA FILE NO. PIOSP480

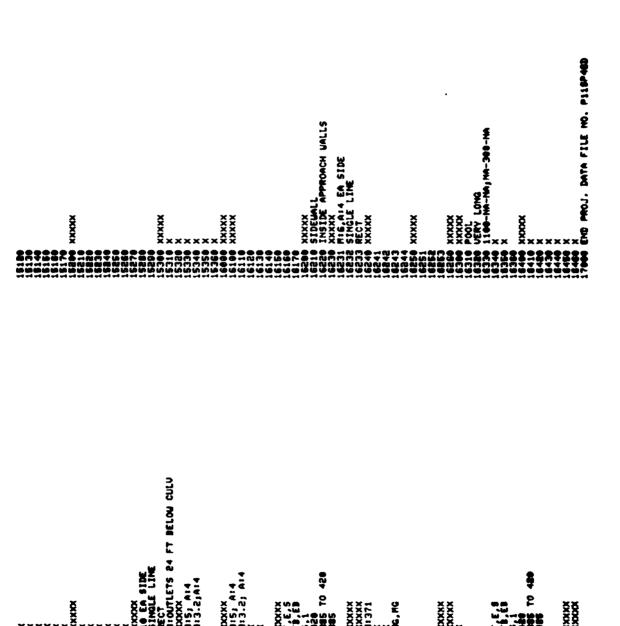
LOCK HYDRAULIC SYSTEM MODEL AND PROTOTYPE STUDY DATA; CORPS OF ENGINEERS. (U) ARMY ENGINEER HATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRA. E B PICKETT ET AL. MAR 88 MES/MP/HL-88-1 F/G 13/2 AD-A193 551 3/4 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART

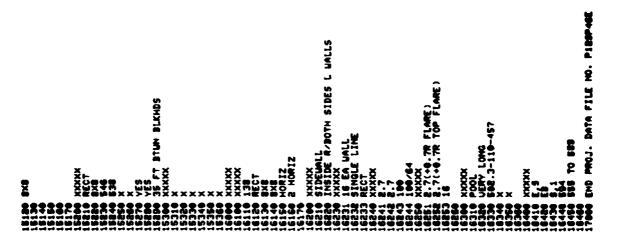
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INSIDE APPROACH WALLS ABOVE SILL
XXXXX
RIG_A14 EA SIDE
SINGLE LINE
RECT
XXXXX



| MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUNTED | MOUN

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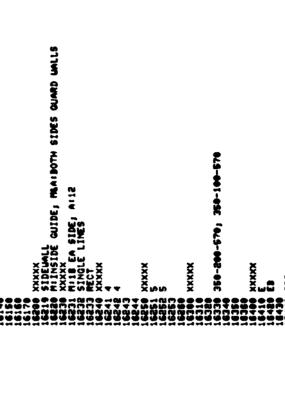
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13170 A1SINGLE SIDE CULUERT
13180 COCK
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DATE 68/18/86
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720-330-1200, 720-100-1200
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TCISG US NO. 46
OCT 1941
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XXXXX
PROJECT: PROTOTYPE
DEFALL: PROTOTYPE
DEFALC: STP 46
DXXXXX
31.7
43949 346
XXXXX
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M:110, A:56
XXXXX
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NO MODEL TEST
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ENG PROJ. DATA FILE NO. P1364

11x14 HORIZ B VERT IN GATE PASS KKKKK 5,4(0R 3.4) TO 8.6

PROJECT DATA FILE NO PLAPPOAS DATE 02/18/36

11140 11150 SUBPERGENCE 11160 SCREN (4-IN) 11170 XXXXX 11210 SIBEUAL 11210 SIBEUAL 11240 OXXXX 11240 OXXXX 11240 ABE INE 1242 SINGLE LINE 1243 RECT

YES VES 180 FT BTUN BLKMDS XXXXXX E, S E, S 14180
14200 XXXXX
14210 XXXXX
14211 28500 TO 4140 TONS
14213 27 0 4.5
14314 UBED SHIP & DANGE MODELS
14316 FB. EB
14340 110 18, UARIABLE
14320 DATE DAYS OPEN
14320 DATE DAYS OPEN
15200 XXXXX
15100 XXXXX
15100 XXXXX

END PROJ. DATA FILE NO. PLASPOA

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XXXXX
XXXXIDEPORTS,UPSTR FLOOR LATS, SIBEPORT
XXXXID LATS TOTAL
UPSTR END
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11140 MA-MA-1950

11150 SIBERRGENCE

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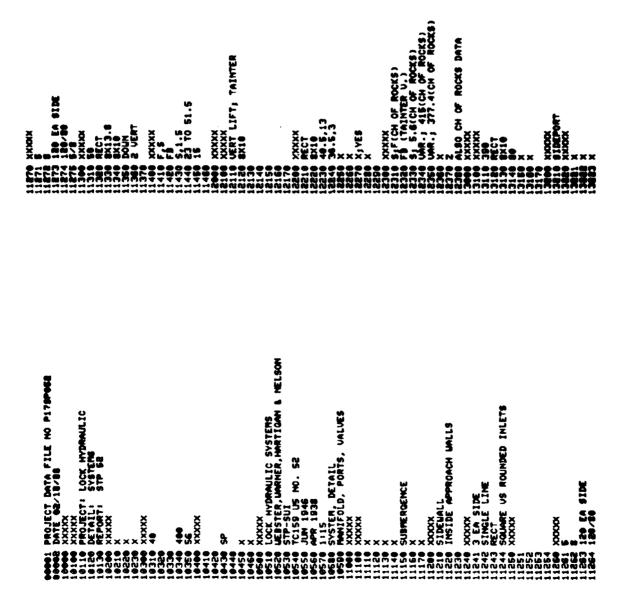
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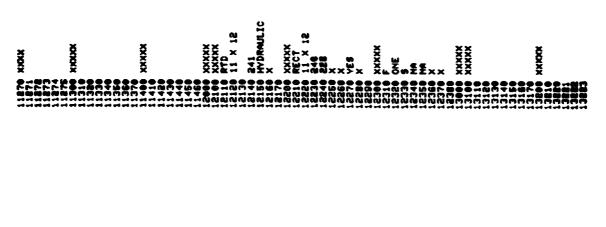
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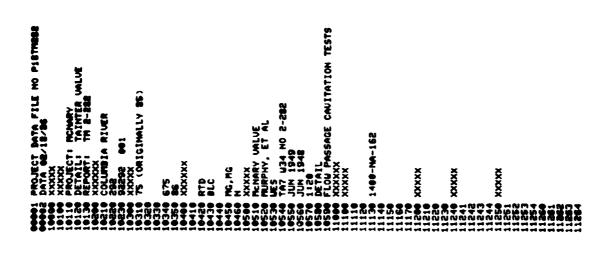
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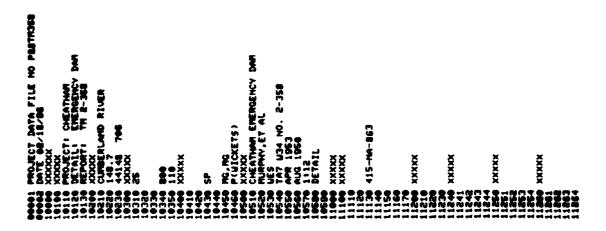
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                                              PROJECT: NEW CUMBERLAND
DETAIL:
REPORT: STP SA
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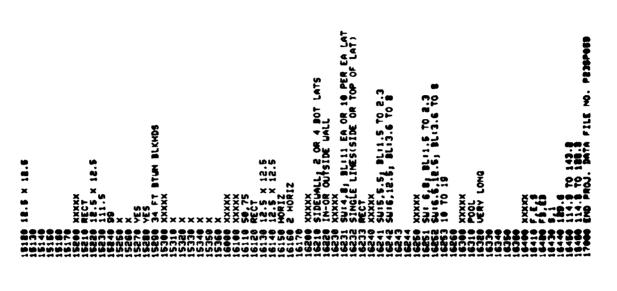
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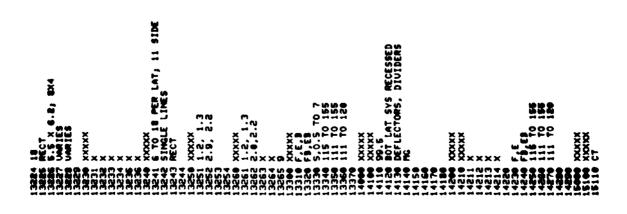
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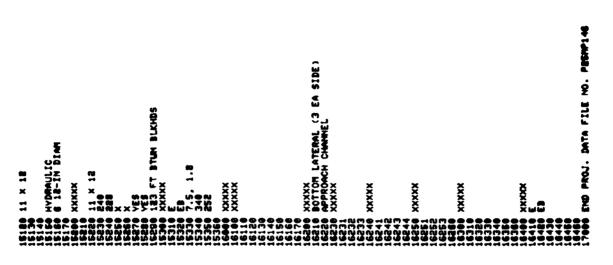
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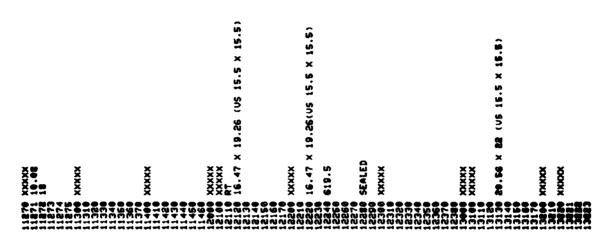
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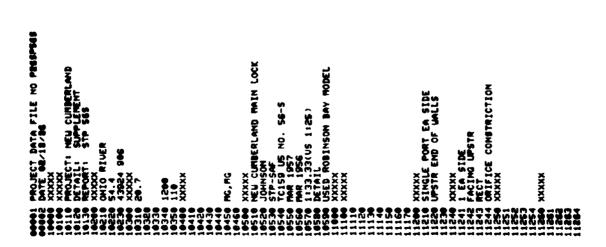
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PROJECT DATA FILE NO PETTRAST DATE 02/18/86

PROJECT: CALUMET DETAIL: REPORT: TR 8-497 XXXXX

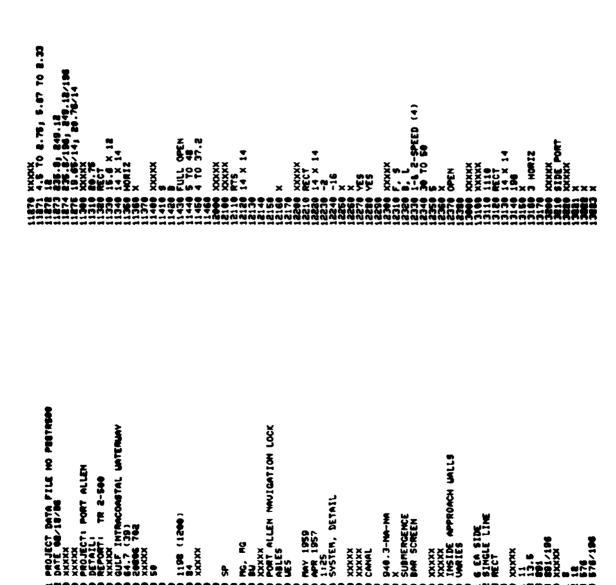
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XXXXX CALUMET RIVER LOCK ABLES LES LCSG APPROACH CHANNEL SG, SG

APR 1959 DEC 1956 1120 SYSTEM, DETAIL

1 EA SIDE X CIRC, RECT

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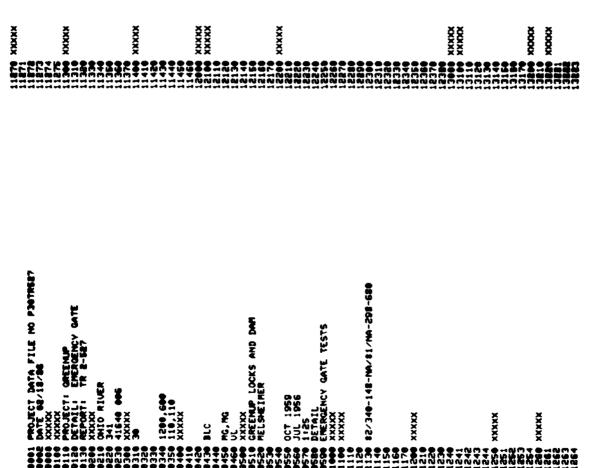
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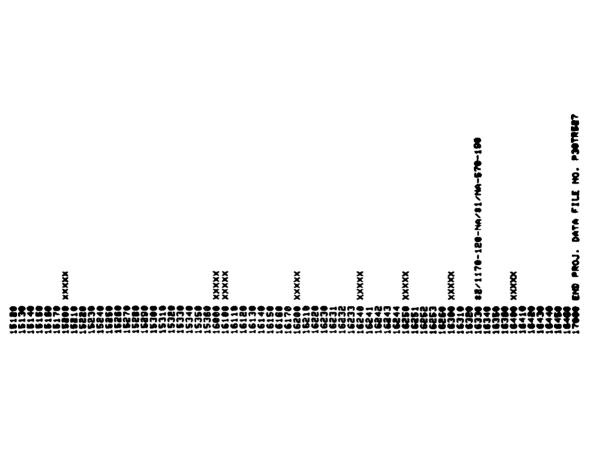
307-NA-554 Stilling Basin

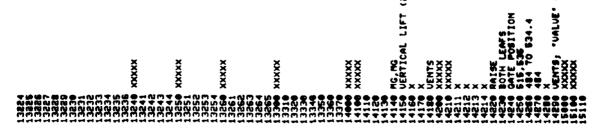
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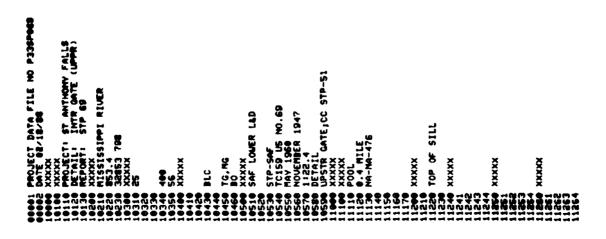
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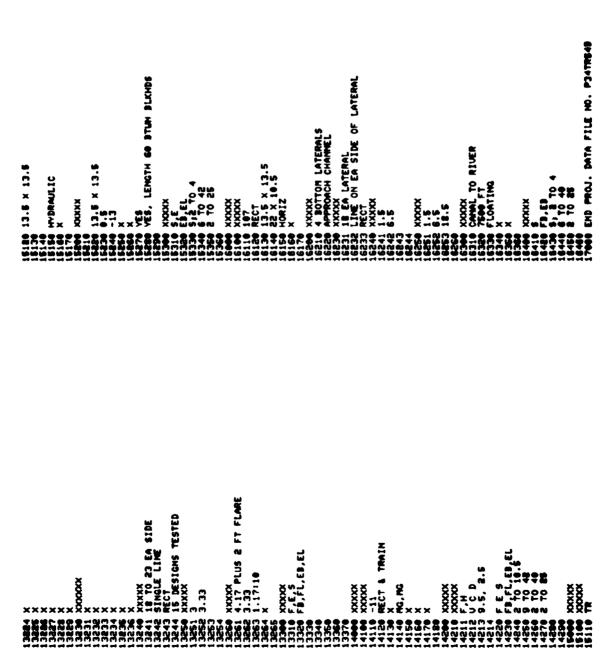
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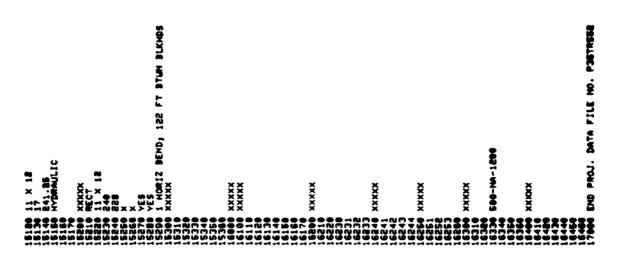
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OF 4 PARALLEL LOCKS

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THE REPORT OF THE CONTRACT OF THE PROPERTY OF

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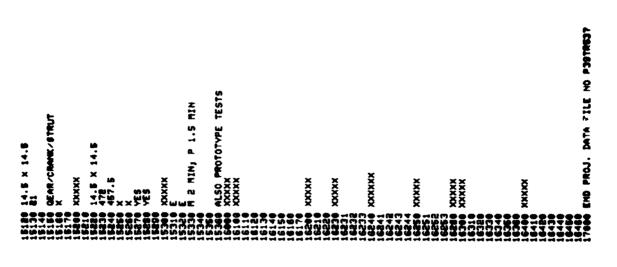
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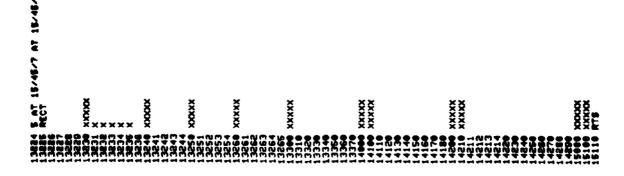
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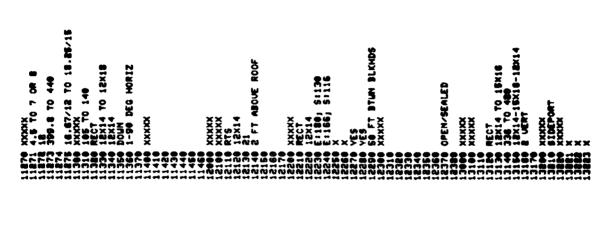


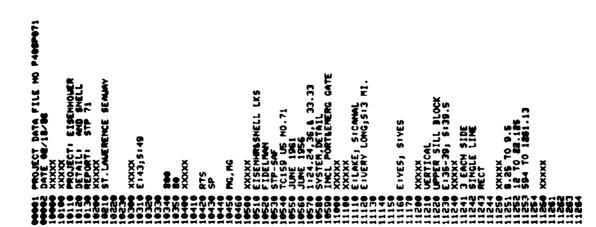
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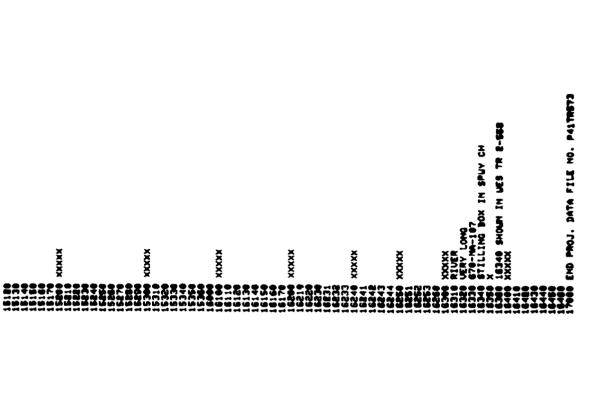
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PROJECT: U F GEORGE

10.13 REPORT: 1 F 73

10.20 CXXXX

10.21 CXXXX

10.22 CXXXX

10.23 REPORT: 3TP 73

10.23 ES 158

10.34 ES 158

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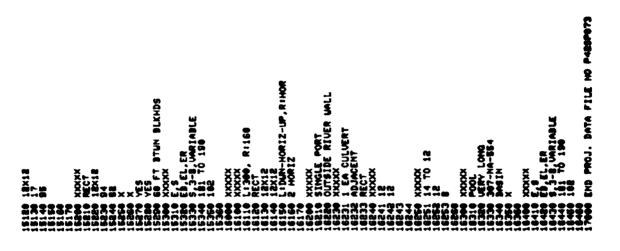
10.35 ES 158

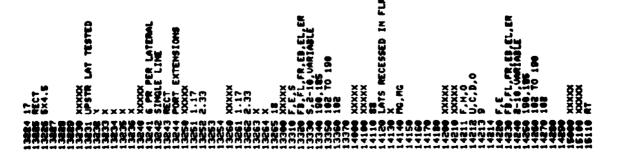
10.35 ES 158

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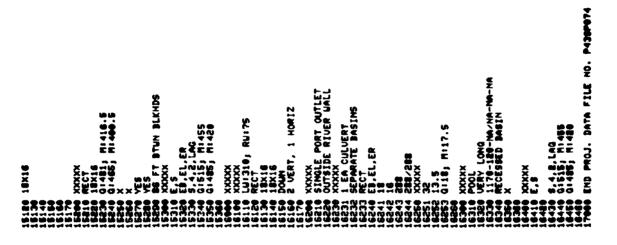
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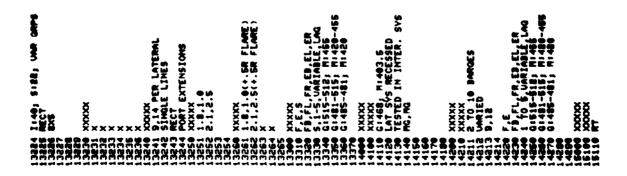
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10110 PROJECT DATA FILE NO PASSPO74
10110 PROJECT GREENUP
10120 REPORT: STP 74
10220 CHILD RIVER
10230 HERDRI: STP 74
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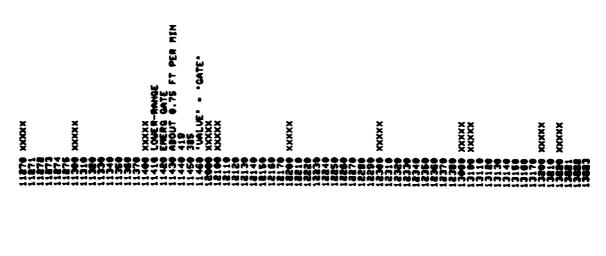
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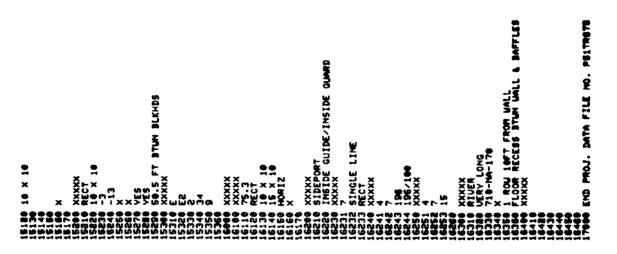
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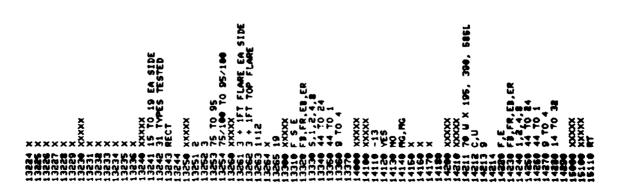
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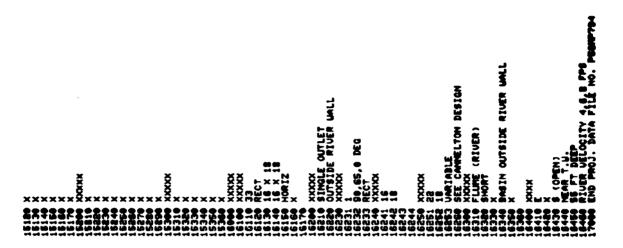
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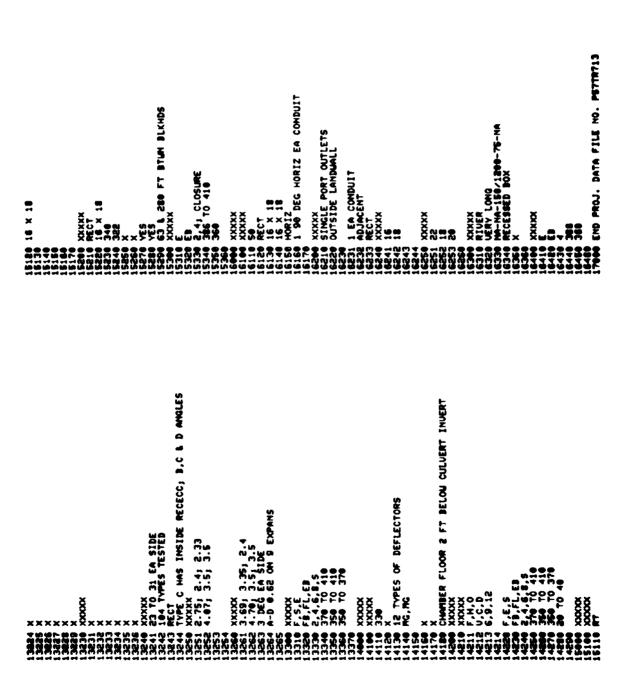
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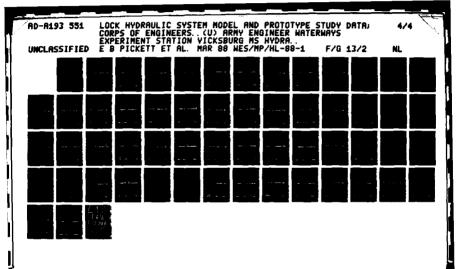
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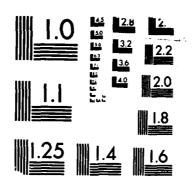
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PROJECT DATA FILE NO PESTR734 DATE 82/18/86 XXXXX	XXXXX XXXXX DETAIL: PROTOTYPE REPORT: TR 8-734 XXXXX MILO RIVER 341	30 30	1200, 600 1101, 110 XXXXX	BLC-5, BLC-1	MG, MG, MG, MG VICE, U. VICENT	GREENUP PROTOTVPE SMITH, VATES LES	JUL 1966 SEP 1963 111 (% 31100 MODEL)	SYSTEM PROTOTYPE TESTS & MODEL DATA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	POOL VERY LONG 1348-148-MA/NA-208-680	SUBPERGENCE	XXXXX SIDEUALL OUTSIDE RIVER & INTERNED WALLS	SINGLE LINE RECT	жжж	XXXXX	

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42 SIDEWALL TRENCH
43 CIRC, RECT
44 DEFL & DIVIDERS BITH RECT PORTS
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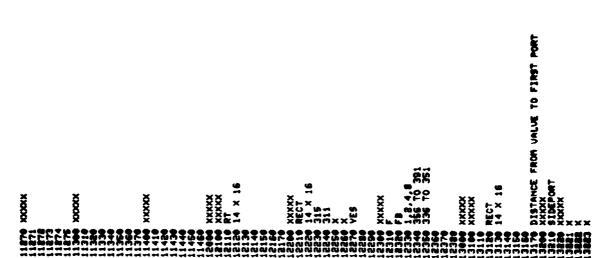
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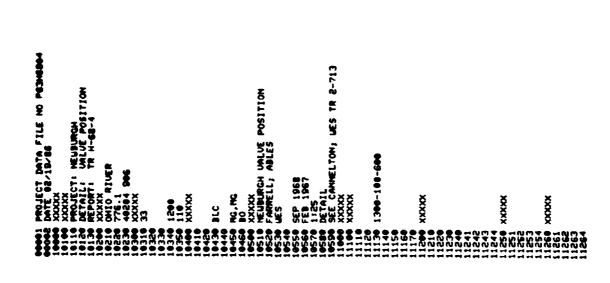
SUBPERGENCE 1100-NA-NA

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DATE 02/19/86
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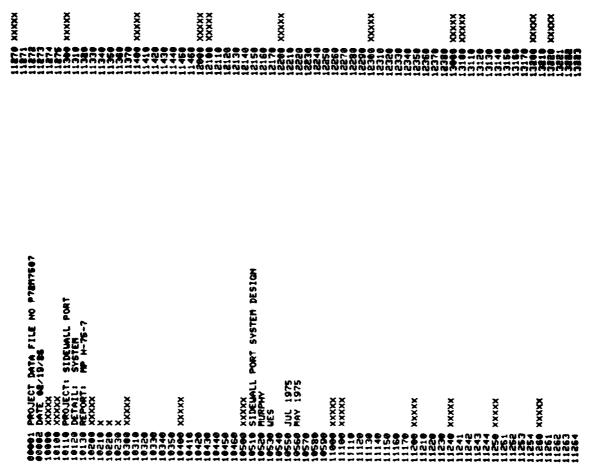
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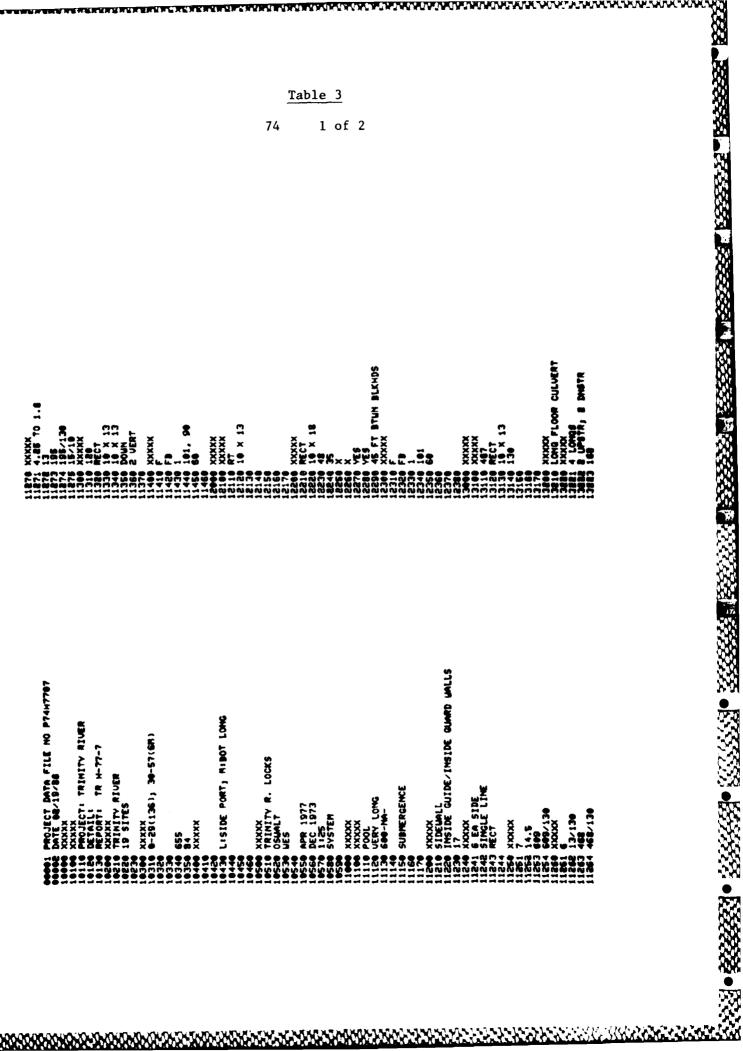
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CULUERTS ON RIVER SIDE
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SIDEWALL
BOTH OUTSIDE GLARD WALL
63
ROJECT: LITTLE GOOSE
ETAIL:
EPORT: BHL 115-1
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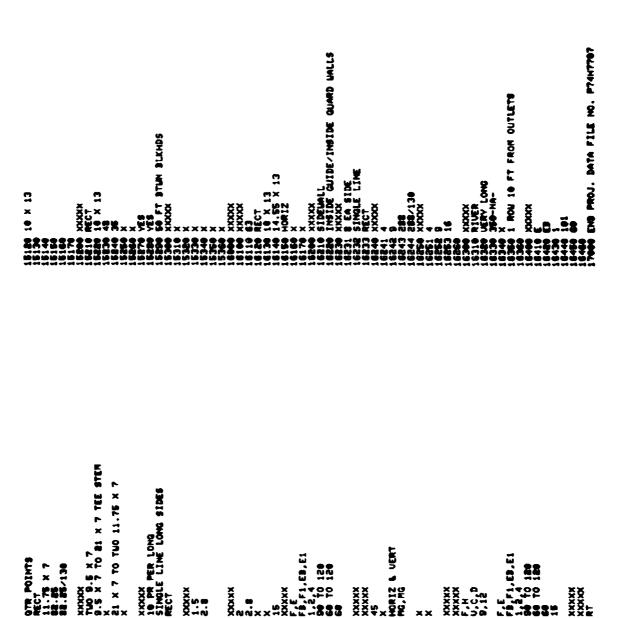
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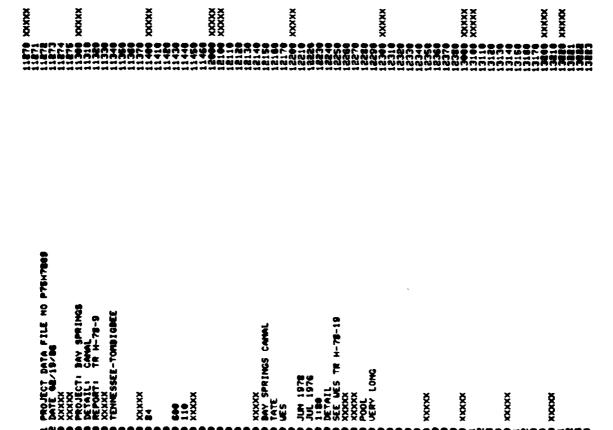
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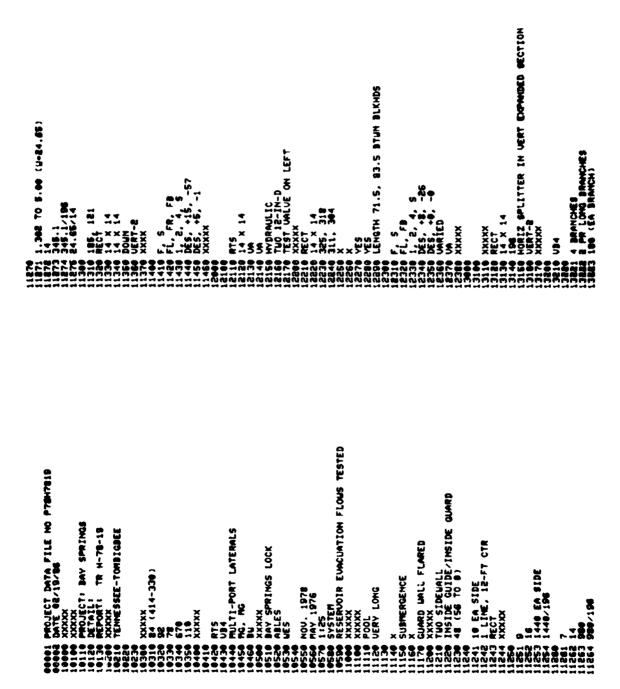
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17888 END PROJ. DATA FILE NO. P78H7819
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IN-PLUS OUTSIDE OF APPROACH
                                                                                                                                                                                                                                                                                                                   26
OUTLETS HAVE 1-FT-R FLARE
                                                                                                                                                                                                                                        8 PR IN EA LATERAL
1 LINE EA SIDE OF LATERAL
RECT
                                                                                   YES
YES
LENGTH 50.5 BTUN BLKHDS
                                                                                                                                                                                            HORIZ-
HORIZ-1 EP SIDE
XXXXX
                                                                                                                            1, 2, 4, 5
DES, +8, -26
DES, -27, +5
BLKHD SLOTS UA
                                                                                                                                                                                                                                                                                                                                                    XXXXX
MANIFORD
WAFFLE UALLS
XXXXX
                                                                                                                                                                  210 (APPROX)
                                                                                                                                                                                                                                                                    12 PR IN EA OF 4 BRANCHES
1 LINE EA SIDE OF BRANCH
RECT
XXXXXX
315 (TOP OF MANIFOLD)
                                                                                                                                                                                                                                                                                                                               4213 FULL, MALF
4212 UPSTR, CTR, DNSTR
4213 9
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OOL ERV LONG 50-NA-295

960 EA SIDE 960/168

CONTRACTOR OF STANDARD ROSSON OF STANDARD ROSSON OF STANDARD PROSPER

XXXXX SHAKE RIVER

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. MORIZ BEND-90 DEG-EA SIDE, LENGTH BTWN BLKMDS:R-270,L-70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1986 END PROJ. DATA FILE NO. P7981861
                                                                                                                                                   K (SEE 13150 L 13130)
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XXXXX
616 (TOP OF MANIFOLD)
1 PR PER GTR OF LOCK
                              IBXIG EA SIDE
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YES
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SY ET BTUM BLKHDS; 30 FT DROP; 2 VENT BENDS
XXXXXX
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8 X 10.25,
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DATE 82/19/36
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REPORT: TR HL-79-21
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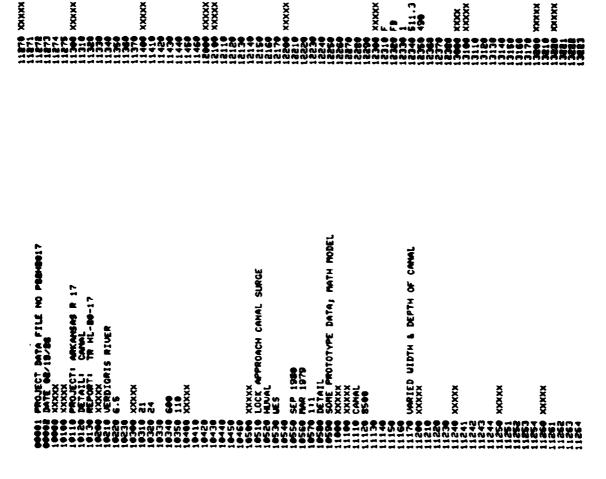
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XXXXX
LIBOTTON LAT, R: BOT LAT & BASIN
LIMPROACH, R: APP & OUTSIDE R: UALL
XXXXX
L: 6 LAT U/4 PR EA, R:3 LAT U/4 PR EA & 4 IN OUT
RIGHE LINES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      B X 7.5
B X 7.5
L & R IN: HORIZ, R OUT: DOUN
L & R IN: X; R OUT: HORIZ 90 DEG
1 × 10.85, 8 × 7.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           XXXXX
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CROSS TRENCHES (8 TYPES)
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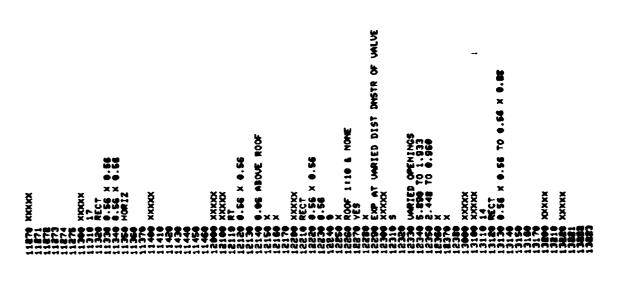
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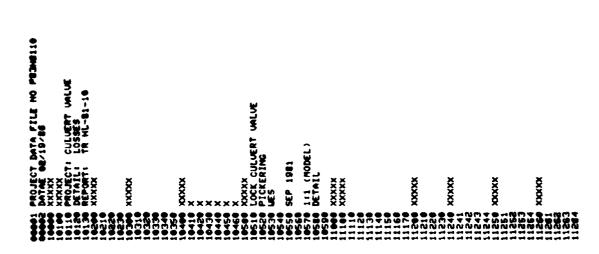
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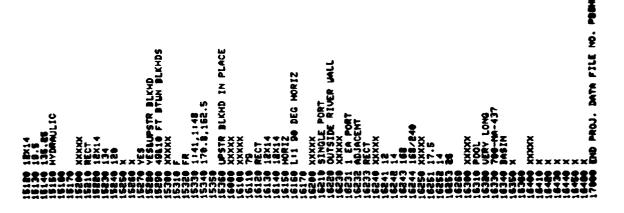
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